CATERPILLAR

Bendix

UEO35710

# parts

## D398 Engine

66B700 to 66B2048
75B1 to Last Built

# QUICK REFERENCE CHARTS

**USE THESE CHARTS TO RECORD FREQUENTLY USED MAINTENANCE INFORMATION**

| | |
|---|---|
| MACHINE SERIAL NO. | |
| EQUIPMENT NO. | |

**FREQUENTLY REPLACED ITEMS**

| PART NO. | PART NAME |
|---|---|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

**FLUIDS & LUBRICANTS**

| WHERE USED | TYPE | AMOUNT |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

**OTHER MAINTENANCE ITEMS**

ME-8732

# D398 ENGINE

## HOW TO ORDER PARTS

Please be sure to furnish the quantity, part number and name of each part wanted. It is also important to give the serial number of the machine for which the parts are intended. Location of serial number plates may be determined by referring to the "Specifications" page of this parts book. It is suggested that you write the serial number of your machine in this space so that it will be readily available when you need it.

THIS PARTS BOOK FOR
MACHINE SERIAL NUMBER

.....

To insure prompt delivery, please don't overlook furnishing the correct name of the consignee, also the street address, town, county and state to which the parts are to be shipped, and indicate whether shipment is to be made by freight, express, parcel post or by other means.

## WHERE TO ORDER PARTS

Caterpillar dealers maintain over 400 stores in the United States, and similar establishments are located strategically in nearly all countries throughout the world. These organizations are backed by the extensive facilities and resources of Caterpillar Tractor Co.

Dealer personnel are factory trained in the stocking and issuing of parts, and large stocks are constantly maintained to insure prompt service. Contact your nearest Caterpillar dealer to make sure that he has your name and address, the correct serial number of your machine, and an accurate list of accessories and attachments. This record will facilitate the issuance of parts when you need them in a hurry.

## WHAT THE CATERPILLAR DEALER CAN DO FOR YOU

Caterpillar dealers are in the business of making it economical and profitable for you to own and operate Caterpillar machinery. They are in constant touch with the factory for new developments in repair and maintenance methods, operating procedures, and parts requirements. Their parts stocks are active and up-to-date, including all parts normally required to protect your investment in Caterpillar machinery.

Nearly all Caterpillar dealers offer 24-hour emergency service. For quick reference, write the name and address of the local dealer on your desk pad or the front of your phone book.

## ONLY CATERPILLAR PARTS GIVE CATERPILLAR PERFORMANCE

The same quality and craftsmanship that has made Caterpillar products famous throughout the world is built into all Caterpillar replacement parts.

REVISION PUBLISHED JULY 1980

THIS PARTS BOOK INCLUDES THE SERVICED PARTS OF D398 ENGINE, 66B700-UP AND 75B1-UP, MANUFACTURED TO THE FOLLOWING ENGINE ARRANGEMENTS

## S.A.E. STANDARD ENGINE ROTATION

4L1127 TURBOCHARGED ENGINE ARRANGEMENT
6L4984 TURBOCHARGED ENGINE ARRANGEMENT

## S.A.E. OPPOSITE ENGINE ROTATION

5L2664 TURBOCHARGED ENGINE ARRANGEMENT
5L7149 TURBOCHARGED ENGINE ARRANGEMENT

BEFORE SELECTING REQUIRED PARTS, BE SURE TO READ THE CAPTIONS BENEATH THE ILLUSTRATION

# INDEX

## Diesel Engine
**(Page 16)**


| Name | Page |
|---|---|
| Aftercooler | 27 |
| Aftercooler Connections | 26B |
| Air Cleaner | 19 |
| Base—Oil Pan | 66 |
| Breather | 45 |
| Camshaft | 45 |
| Connecting Rod | 44 |
| Control—Governor | 49 |
| Crankshaft | 42 |
| Crankshaft Bearings | 42 |
| Crankshaft Conversion Seal | 42B |
| Cylinder Block and Covers | 40 |
| Cylinder Head | 38 |
| Damper—Vibration | 43 |
| Drive—Front Accessory | 32 |
| Drive—Fuel Pump and Governor | 52 |
| Elbow Replacement—Oil Cooler | 69B |
| Filter—Fuel | 61 |
| Filter—Oil | 67 |
| Flywheel | 43 |
| Fuel Injection System | 62 |
| Fuel Lines—Flexible | 60 |
| Gasket Kit | 42B |
| Governor | 50 |
| Lifting Eye | 46 |
| Manifolds | 28 |
| Oil Cooler | 68 |
| Oil Lines | 68 |
| Piston | 44 |
| Pump—Fuel Priming | 59 |
| Pump—Fuel Transfer | 60 |
| Pump—Oil | 65 |
| Pump—Water | 16 |
| Service Meter | 47 |
| Shut-Off—Safety Control | 56 |
| Specifications | 192 |
| Transfers | 190 |
| Turbocharger | 20 |
| Valve—Turbocharger Lubrication | 26 |
| Valve Mechanism | 38 |
| Water Lines | 17 |


## Attachments
**(Page 70)**


| | |
|---|---|
| Aftercooler—Raw Water | 127 |
| Air Cleaner | 129 |
| Air Cleaner Diaphragm | 130B |
| Air Starting Valve | 94B |
| Alternator | 114 |
| Auxiliary Pump and Lines | 126A |
| Battery | 111 |
| Chart—Governor Control | 144 |
| Chart—Heat Exchanger | 124 |

## Attachments—Continued


| Name | Page |
|---|---|
| Clutch—Enclosed | 166 |
| Clutch—Flywheel | 164 |
| Connections—Aftercooler | 128 |
| Contactor—Safety Alarm | 139 |
| Control—Governor—Hydraulic | 148 |
| Control—Governor—Positive Locking | 147 |
| Control—Governor—Remote | 147 |
| Conversion—Governor | 152 |
| Coupling—Flexible | 169 |
| Crankcase Relief Valve | 80B |
| Drive—Auxiliary | 160 |
| Drive—Fan | 117 |
| Drive—Front Accessory | 126B |
| Drive—Tachometer | 135 |
| Ether Starting Aid | 128B |
| Exhaust Fitting | 131 |
| Exhaust Flange | 133 |
| Exhaust Pipe | 134 |
| Fan | 119 |
| Generator | 112 |
| Glow Plug | 110 |
| Governor—Woodward | 149 |
| Governor Pneumatic Actuator | 145 |
| Heat Exchanger | 125 |
| Indicator—Air Filter | 128 |
| Installation—Generator | 171 |
| Instruments—Electrical | 136 |
| Instruments—Mechanical | 137 |
| Junction Box | 106 |
| Mounting—Flywheel Clutch | 164 |
| Mounting—Instrument & Panel | 137 |
| Oil Cooler | 127A |
| Oil Cooler—Torque Converter | 154 |
| Power Take-Off—Front | 161 |
| Precleaner | 130 |
| Pump—Raw Water | 122 |
| Radiator | 117 |
| Rails—Engine Support | 169 |
| Receiver—Air | 94 |
| Shaft—Rack Limit Servo | 143 |
| Shaft—Stub | 163 |
| Shut-Off—Air | 142 |
| Shut-Off—Air Actuated | 141 |
| Shut-Off—Manual | 143 |
| Shut-Off—Rack Solenoid | 140 |
| Shut-Off—Safety | 142A |
| Shut-Off—Water Temperature | 141 |
| Single Starting Motor | 106G |
| Start-Stop—Automatic—24 Volt | 106A |
| Start-Stop—Automatic—32 Volt | 107 |
| Starting—Air | 90 |
| Starting—Electric—12 Volt | 88 |
| Starting—Electric—32 Volt | 98 |
| Starting—Gasoline | 70 |
| Support—Fuel Line | 148D |
| Tachometer—Electric | 134 |
| Tank—Surge | 121 |
| Tank—Expansion | 121C |
| Tools | 188 |
| Torque Converter Cooler | 154 |
| Torque Converter Cooler Connection | 126M |
| Torque Springs | 150 |
| Turbocharger | 154 |
| Vapor Arrestor | 94B |
| Water Lines | 121 |
| Water Lines—Sea Water | 124 |


## Self-Regulated Generators

(Page 173)

Generator ..... 174

ASSUREZ-VOUS EN CONSULTANT CE CATALOGUE QUE VOUS UTILISEZ BIEN LES ILLUSTRATIONS CORRESPONDANT AU MODÈLE ET NUMÉRO DE VOTRE MOTEUR.

# INDEX ALPHABÉTIQUE

## Moteur diesel
**(Page 16)**


| Désignation | Page |
|---|---|
| Accessoires (entraînement avant) | 32 |
| Amortisseur de vibration d'arbre moteur | 43 |
| Arbre à cames | 45 |
| Arrêt automatique de sécurité | 56 |
| Bielles | 44 |
| Bloc-cylindres | 40 |
| Canalisations de graissage | 68 |
| Canalisations souples de carburant | 60 |
| Caractéristiques | 192 |
| Carter inférieur (socle) | 66 |
| Collecteurs | 28 |
| Compteur d'entretien | 47 |
| Coussinets de vilebrequin | 42 |
| Culasses | 38 |
| Entraînements secondaires (pompe d'injection et régulateur) | 52 |
| Filtre à air | 19 |
| Filtre à carburant diesel | 61 |
| Filtre à huile de graissage | 67 |
| Groupe d'injection de carburant | 62 |
| Instructions sur décalcomanies | 190 |
| Piston | 44 |
| Pompe à eau | 16 |
| Pompe à huile de graissage | 65 |
| Pompe d'alimentation de carburant | 60 |
| Pompe d'amorçage (carburant) | 59 |
| Réfrigérant d'admission | 27 |
| Réfrigérant d'huile de graissage | 68 |
| Régulateur | 50 |
| Régulateur (timonerie extérieure) | 49 |
| Reniflard | 45 |
| Soupape de lubrification du turbo-compresseur | 26 |
| Soupapes et train de commande | 38 |
| Turbo-compresseur | 20 |
| Tuyauterie d'eau | 17 |
| Vilebrequin | 42 |
| Vis à oeil (pour le levage du moteur) | 46 |
| Volant | 43 |


## Accessoires
**(Page 70)**


| | |
|---|---|
| Accouplement flexible | 169 |
| Alternateur de charge | 114 |
| Arbre en bout de volant | 163 |
| Arrêt à commande pneumatique | 141 |
| Arrêt automatique par échauffement | 141 |
| Arrêt de sécurité (fermeture d'air manuelle) | 143 |

## Accessoires—Continué


| Désignation | Page |
|---|---|
| Arrêt et démarrage automatiques | 107 |
| Batterie | 111 |
| Boîte de jonction | 106 |
| Bougies de départ | 110 |
| Branchements du refroidisseur d'admission | 128 |
| Bride d'échappement | 133 |
| Butées élastiques de course de crémaillère | 150 |
| Canalisations de carburant (support) | 150 |
| Contracteur d'alarme (sécurité) | 139 |
| Convertisseur (réfrigérant) | 154 |
| Démarrage à air comprimé | 90 |
| Démarreur électrique 12 volts | 88 |
| Démarreur électrique 32 volts | 98 |
| Dynamo | 112 |
| Dynamo (groupe de montage) | 171 |
| Echangeur de température | 125 |
| Echangeur de température (tableau) | 124 |
| Echappement (tuyauterie de raccordement) | 131 |
| Embrayage principal | 164 |
| Embrayage principal (groupe de montage) | 164 |
| Embrayage sous carter | 166 |
| Entraînement auxiliaire | 160 |
| Filtre à air | 129 |
| Groupe de lancement à essence (gazoline) | 70 |
| Groupe de transformation de régulateur | 152 |
| Indicateur de colmatage (filtre à air) | 128 |
| Instruments électriques | 136 |
| Longerons de support moteur | 169 |
| Outillage | 188 |
| Pompe à eau brute | 122 |
| Préfiltre à air | 130 |
| Prise de mouvement AV | 161 |
| Radiateur | 117 |
| Refroidisseur d'admission d'air (eau brute) | 127 |
| Régulateur (commande hydraulique) | 148 |
| Régulateur (télécommande) | 147 |
| Régulateur (verrouillage anti-retour) | 147 |
| Régulateur (Woodward) | 149 |
| Réservoir d'air comprimé | 94 |
| Réservoir d'expansion | 121 |
| Servo-limiteur de crémaillère | 143 |
| Solénoïde d'arrêt | 140 |
| Tableau des combinaisons de régulateur | 144 |
| Tableau d'instruments (groupe de montage) | 137 |
| Tachymètre électrique | 134 |
| Tachymètre (entraînement) | 135 |
| Turbo-compresseur | 154 |
| Tuyau d'échappement | 134 |
| Tuyauterie d'eau | 121 |
| Tuyauterie d'eau brute | 124 |
| Ventilateur | 119 |
| Ventilateur (entraînement) | 117 |
| Volet d'arrêt d'air | 142 |


## Génératrices à auto-régulation
**(Page 173)**


Génératrice ..... 174

ANTES DE ELEGIR LOS REPUESTOS NECESARIOS ASEGURESE DE LEER EL TITULO DEBAJO DE LA ILUSTRACION

# INDICE

## Motor Diesel
**(Página 16)**


| Nombre | Página |
|---|---|
| Amortiguador de vibración | 43 |
| Arbol de levas | 45 |
| Base—Cárter | 66 |
| Bielas | 44 |
| Bloque del motor y tapas | 40 |
| Bomba de cebado del combustible | 59 |
| Bomba de transferencia | 60 |
| Bomba del aceite | 65 |
| Bomba del agua | 16 |
| Calcomanías | 190 |
| Cáncamo | 46 |
| Cigüeñal | 42 |
| Cojinetes de bancada | 42 |
| Control de parada automática | 56 |
| Control del regulador | 49 |
| Culata | 38 |
| Enfriador del aceite | 68 |
| Enfriador del aire de admisión | 27 |
| Especificaciones | 192 |
| Filtro de aire | 19 |
| Filtro del aceite | 67 |
| Filtro del combustible | 61 |
| Horómetro | 47 |
| Mando de las bombas del combustible y regulador | 52 |
| Mando delantero de accesorios | 32 |
| Mecanismo de las válvulas | 38 |
| Múltiples | 28 |
| Pistón | 44 |
| Regulador | 50 |
| Respiradero | 45 |
| Sistema de inyección del combustible | 62 |
| Tuberías del aceite | 68 |
| Tuberías del agua | 17 |
| Tuberías flexibles del combustible | 60 |
| Turboalimentador | 20 |
| Válvula de lubricación del turboalimentador | 26 |
| Volante | 43 |


## Accesorios
**(Página 70)**


| | |
|---|---|
| Acoplamiento flexible | 169 |
| Alternador | 114 |
| Antefiltro | 130 |
| Arranque eléctrico de 12 voltios | 88 |
| Arranque eléctrico de 32 voltios | 98 |
| Arranque—Gasolina | 70 |
| Arranque por aire | 90 |
| Arranque y parada automáticos | 107 |

## Accesorios—Continuación


| Nombre | Página |
|---|---|
| Batería | 111 |
| Bomba del agua basta | 122 |
| Brida del escape | 133 |
| Bujías incandescentes | 110 |
| Caja de conexiones | 106 |
| Conexión del escape | 131 |
| Conexiones del enfriador del aire de admisión | 128 |
| Contacto de seguridad | 139 |
| Control de cierre positivo del regulador | 147 |
| Control hidráulico del regulador | 148 |
| Control remoto del regulador | 147 |
| Conversión—Regulador | 152 |
| Eje del limitador de la cremallera del servo-regulador | 143 |
| Embrague cubierto | 166 |
| Embrague principal | 164 |
| Enfriador del aceite—Convertidor de torque | 154 |
| Enfriador del aire de admisión—Agua basta | 127 |
| Filtro de aire | 129 |
| Generador | 112 |
| Herramientas | 188 |
| Indicador del filtro de aire | 128 |
| Instalación—Generador | 171 |
| Instrumentos eléctricos | 136 |
| Intercambiador de calor | 125 |
| Mando auxiliar | 160 |
| Mando del ventilador | 117 |
| Montaje del embrague principal | 164 |
| Montaje—Instrumentos y tablero | 137 |
| Muñón de eje | 163 |
| Parada automática accionada por aire en el regulador | 141 |
| Parada automática—Múltiple de admisión | 142 |
| Parada automática—Solenoide de la cremallera | 140 |
| Parada automática—Temperatura del agua | 141 |
| Parada manual | 143 |
| Radiador | 117 |
| Regulador Woodward | 149 |
| Resortes de torque | 150 |
| Rieles—Soporte del motor | 169 |
| Soporte—Tubería del combustible | 150 |
| Tabla—Control del regulador | 144 |
| Tabla—Intercambiador de calor | 124 |
| Tacómetro eléctrico | 134 |
| Tanque de aire | 94 |
| Tanque de compensación | 121 |
| Toma de fuerza delantera | 161 |
| Toma para tacómetro | 135 |
| Tuberías del agua | 121 |
| Tuberías del agua basta | 124 |
| Tubo de escape | 134 |
| Turboalimentador | 154 |
| Ventilador | 119 |


## Generadores de regulación automática
**(Página 173)**


| | |
|---|---|
| Generador | 174 |

AO ESCOLHER AS PEÇAS NECESSÁRIAS VEJA, SOB A ILUSTRAÇÃO, SE ELAS PERTENCEM AO ARRANJO CORRETO DO MOTOR

# ÍNDICE

## Motor diesel
**(Página 16)**


| Nomenclatura | Página |
|---|---|
| Amortecedor da árvore de manivelas | 43 |
| Arrefecedor da admissão | 27 |
| Arrefecedor do óleo | 68 |
| Árvore de comando das válvulas | 45 |
| Árvore de manivelas (virebrequim) | 42 |
| Base do cárter | 66 |
| Biela | 44 |
| Bloco do motor e tampas | 40 |
| Bomba d'água | 16 |
| Bomba de óleo | 65 |
| Bomba de purgação do combustível | 59 |
| Bomba de transferência do combustível | 60 |
| Cabeçote | 38 |
| Coletores | 28 |
| Comando das bombas injetoras | 52 |
| Comando dianteiro de acessórios | 32 |
| Contrôle do regulador de velocidade (acelerador) | 49 |
| Decalcomanias | 190 |
| Especificações | 192 |
| Filtro de combustível | 61 |
| Filtro de óleo | 67 |
| Horômetro | 47 |
| Mancais principais do motor | 42 |
| Mecanismo das válvulas | 38 |
| Olhal de levantamento | 46 |
| Parada automática de segurança | 56 |
| Pistão | 44 |
| Purificador de ar | 19 |
| Regulador de velocidade | 50 |
| Respiro | 45 |
| Sistema de injeção do combustível | 62 |
| Tubos d'água | 17 |
| Tubulações do óleo | 68 |
| Tubulações flexíveis do combustível | 60 |
| Turbocompressor | 20 |
| Válvula de lubrificação do turbocompressor | 26 |
| Volante do motor | 43 |


## Acessórios
**(Página 70)**


| | |
|---|---|
| Acoplamento flexível | 169 |
| Arrefecedor da admissão por água natural | 127 |
| Árvore curta para o volante | 163 |
| Bateria | 111 |
| Bomba d'água natural | 122 |

## Acessórios—Continuaçaõ


| Nomenclatura | Página |
|---|---|
| Caixa de junção | 106 |
| Comando auxiliar | 160 |
| Comando do tacômetro | 135 |
| Comando do ventilador | 117 |
| Conector do alarme de segurança | 139 |
| Conexões do arrefecedor da admissão | 128 |
| Conexões do escapamento | 131 |
| Contrôle de trava positiva do regulador | 147 |
| Contrôle hidráulico do regulador | 148 |
| Contrôle remoto do regulador | 147 |
| Conversão do regulador de velocidade | 152 |
| Dínamo | 112 |
| Dispositivo de parada acionado a ar | 141 |
| Dispositivo de parada automática por temperatura d'água | 141 |
| Dispositivo de parada manual | 143 |
| Dispositivo de parada por afogamento | 142 |
| Embreagem encerrada | 166 |
| Embreagem principal | 164 |
| Ferramentas | 188 |
| Flange do escapamento | 133 |
| Gerador alternador | 114 |
| Gerador—Instalação | 171 |
| Indicador de limpeza do purificador | 128 |
| Instrumentos elétricos | 136 |
| Molas de contrôle do torque | 150 |
| Montagem da embreagem | 164 |
| Montagem do painel e instrumentos | 137 |
| Partida a ar | 90 |
| Partida a gasolina | 70 |
| Partida e parada automática | 107 |
| Partida elétrica—12 volts | 88 |
| Partida elétrica—32 volts | 98 |
| Pemutador de calor | 125 |
| Pré-purificador | 130 |
| Purificador de ar | 129 |
| Radiador | 117 |
| Regulador de velocidade Woodward | 149 |
| Relação de peças do contrôle do regulador | 144 |
| Relação de permutadores de calor e suas aplicações | 124 |
| Servo-mecanismo do limitador da cremalheira | 143 |
| Solenóide de parada automática | 140 |
| Suporte de tubo de combustível | 150 |
| Tacômetro elétrico | 134 |
| Tanque de ar | 94 |
| Tanque de expansão | 121 |
| Tomada de fôrça dianteira | 161 |
| Trilhos de suporte do motor | 169 |
| Tubo de descarga | 134 |
| Tubos d'água | 121 |
| Tubos d'água natural | 124 |
| Tubulações do arrefecedor do conversor de torque | 154 |
| Turbocompressor | 154 |
| Vela de aquecimento | 110 |
| Ventilador | 119 |


## Geradores auto-regulados
**(Página 173)**


| | |
|---|---|
| Gerador | 174 |

TEILE, BZW. DEREN NUMMERN, SOLLTEN NUR ANHAND DER, FÜR IHREN BESTIMMTEN MOTORTYP ZUTREFFENDEN DARSTELLUNGEN AUSGEWÄHLT WERDEN

# INHALTSVERZEICHNIS

## Dieselmotor
**(Seite 16)**


| Bezeichnung | Seite |
|---|---|
| Abziehbilder | 190 |
| Einspritzanlage | 62 |
| Entlüfter | 45 |
| Gasgestänge | 49 |
| Huböse | 46 |
| Kolben | 44 |
| Kraftstoffilter | 61 |
| Kraftstofförderpumpe | 60 |
| Kraftstoffhandpumpe | 59 |
| Kraftstoffleitungen, elastisch | 60 |
| Krümmer | 28 |
| Kurbeldämpfer | 43 |
| Kurbellager | 42 |
| Kurbelwelle | 42 |
| Ladeluftkühler | 27 |
| Luftreiniger | 19 |
| Motorblock und Deckel | 40 |
| Nebenantrieb, vorne | 32 |
| Nockenwelle | 45 |
| Ölkühler | 68 |
| Ölleitungen | 68 |
| Ölwanne im Unterbau | 66 |
| Pleuel | 44 |
| Regler | 50 |
| Schmierfilter | 67 |
| Schmierpumpe | 65 |
| Schwungscheibe | 43 |
| Sicherheitsabstellvorrichtung | 56 |
| Technische Daten | 192 |
| Turbolader | 20 |
| Turboladerschmierventil | 26 |
| Ventilsteuerung | 38 |
| Wartungsmesser | 47 |
| Wasserleitungen | 17 |
| Wasserpumpe | 16 |
| Zylinderkopf | 38 |

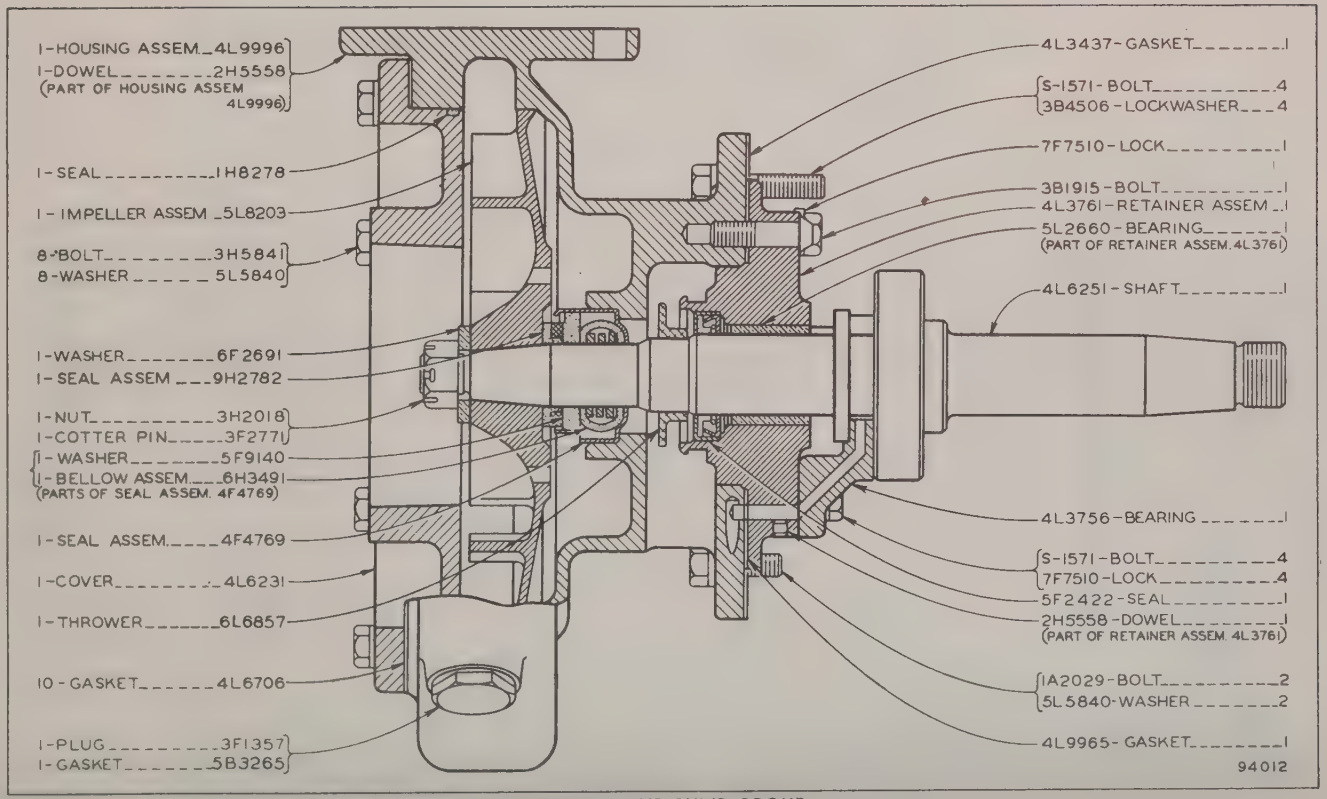

## Zubehör
**(Seite 70)**


| | |
|---|---|
| Abstellsolenoid | 140 |
| Abstellvorrichtung, luftdruckabhängig | 141 |
| Abstellvorrichtung, wassertemperaturabhängig | 141 |
| Abzweigdose | 106 |

## Zubehör—Fortgesetzt


| Bezeichnung | Seite |
|---|---|
| Alarmkontaktvorrichtung | 139 |
| Armaturen, elektrisch | 136 |
| Auspuffanschlüsse | 131 |
| Auspufflansch | 133 |
| Auspuffrohr | 134 |
| Batterie | 111 |
| Benzinstartermotor | 70 |
| Drehmomentfeder | 150 |
| Drehstromlichtmaschine | 114 |
| Drehzahlmesser, elektrisch | 134 |
| Drehzahlmesserantrieb | 135 |
| Druckluft | 90 |
| Druckluftabstellvorrichtung | 142 |
| Druckventilator | 117 |
| Elektrische Kupplung | 169 |
| Elektrischer Anlasser, 12 Volt | 88 |
| Elektrischer Anlasser, 32 Volt | 98 |
| Gashebel, verriegelbar | 147 |
| Generator | 112 |
| Generatoren-Einbau | 171 |
| Glühkerze | 110 |
| Handabstellung | 143 |
| Hauptkupplung | 164 |
| Hauptkupplungsgestänge | 164 |
| Hydraulikregler | 148 |
| Instrumentenbretthalterung | 137 |
| Kraftstoffleitungshalter | 150 |
| Kraftübertragung, vorne | 161 |
| Kühlernetz | 117 |
| Kupplung, geschlossen | 166 |
| Ladeluftkühleranschlüsse | 128 |
| Luftaufnahme | 94 |
| Luftfilteranzeige | 128 |
| Luftreiniger | 129 |
| Motorunterbau | 169 |
| Nebenantrieb | 160 |
| Reglereinstelltabelle | 144 |
| Reglerfernsteuerung | 147 |
| Reglerumbaugruppe | 152 |
| Rohwasser-Ladeluftkühler | 127 |
| Rohwasserleitungen | 124 |
| Rohwasserpumpe | 122 |
| Start-Stop-Automatik | 107 |
| Stummelwelle | 163 |
| Turbolader | 154 |
| Ventilator | 119 |
| Vorreiniger | 130 |
| Wärmeaustauscher | 125 |
| Wärmeaustauschertabelle | 124 |
| Wandleröilkühler | 154 |
| Wasserleitungen | 121 |
| Werkzeuge | 188 |
| Windkessel | 121 |
| Woodward-Regler | 149 |
| Zahnstangenbegrenzer-Servowelle | 143 |


## Selbstregulierende Generatoren
**(Seite 173)**



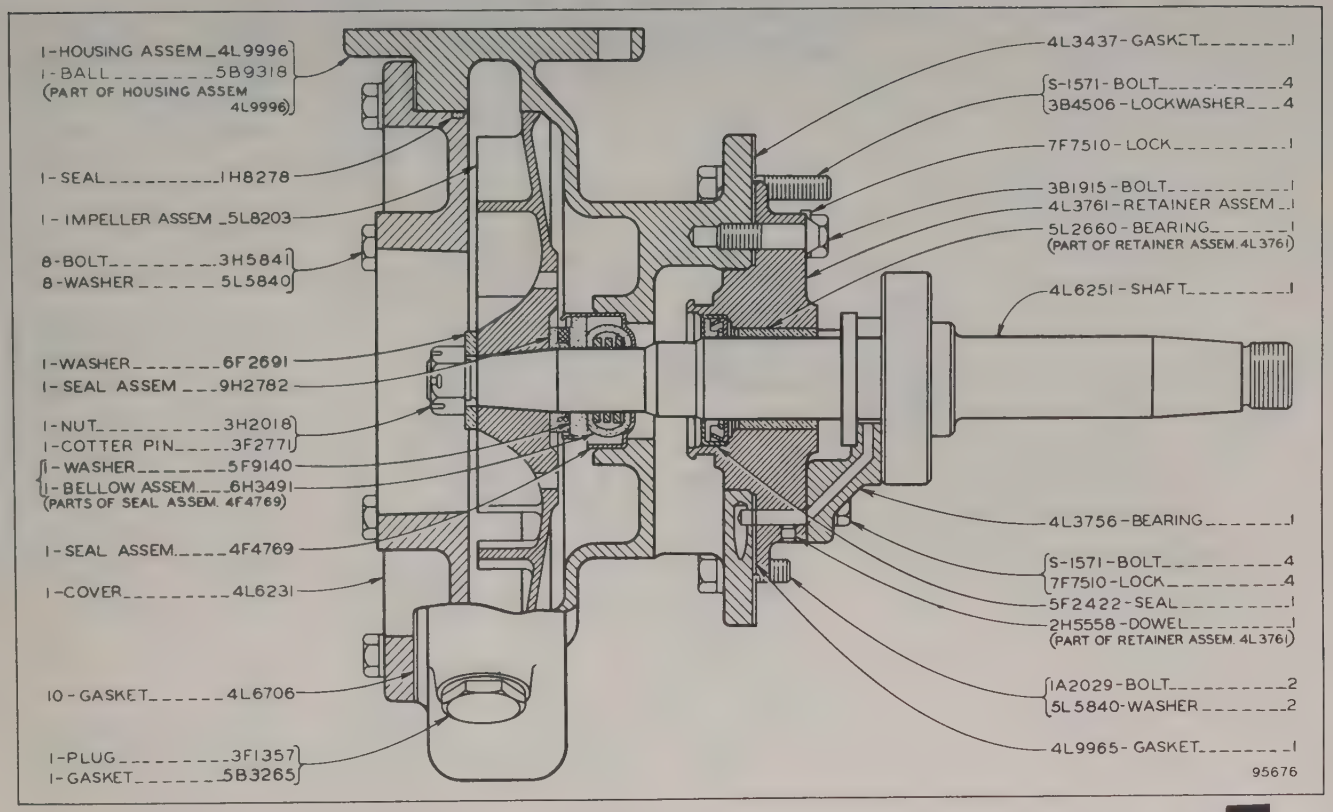

**4L8800 WATER PUMP GROUP**

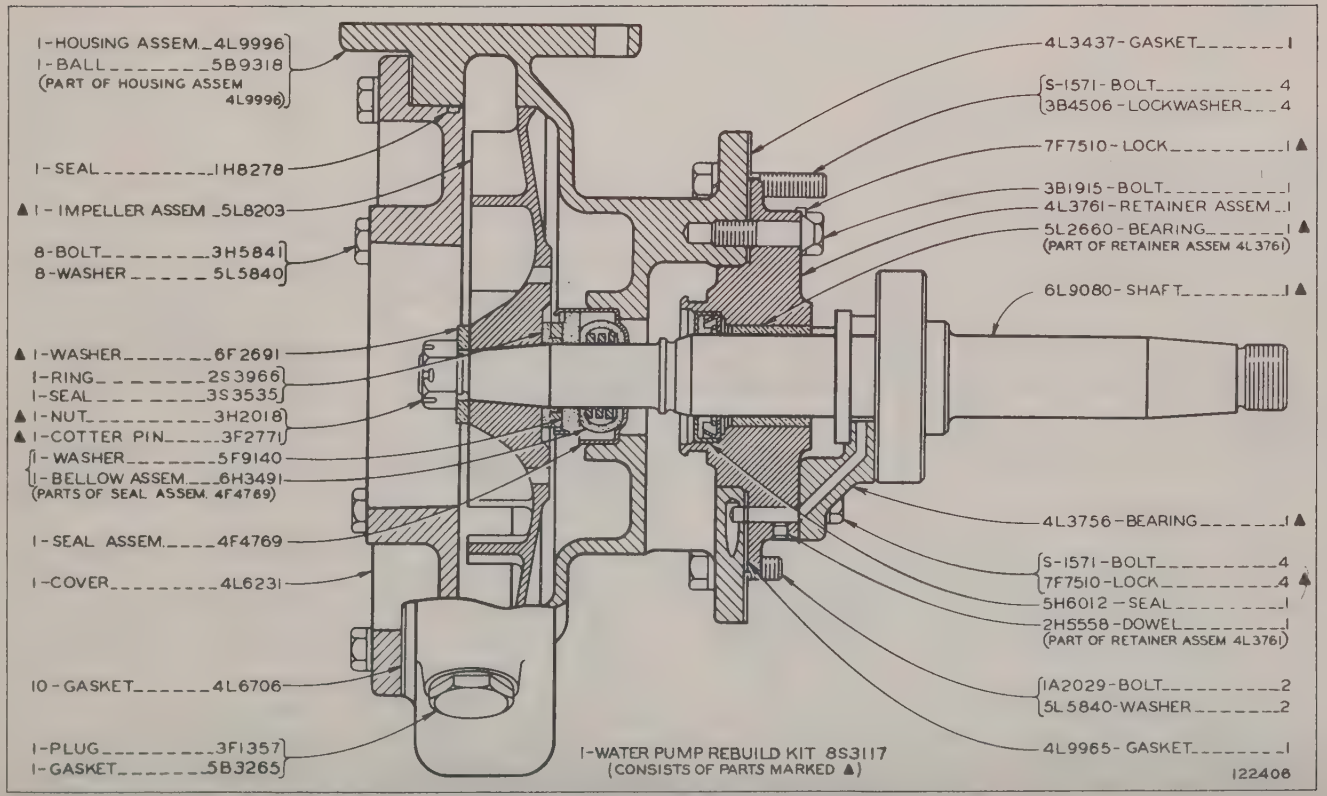
Serial No. 66B700 to 66B976 inclusive and 75B1 to 75B168 inclusive

Refer also to Pages 117, 118, 122 and 123 for special parts

## 4L8800 WATER PUMP GROUP

Serial No. 66B977 to 66B1346 inclusive and 75B169 to 75B335 inclusive
Refer also to Pages 117, 118, 122 and 123 for special parts






**4L8800 WATER PUMP GROUP**

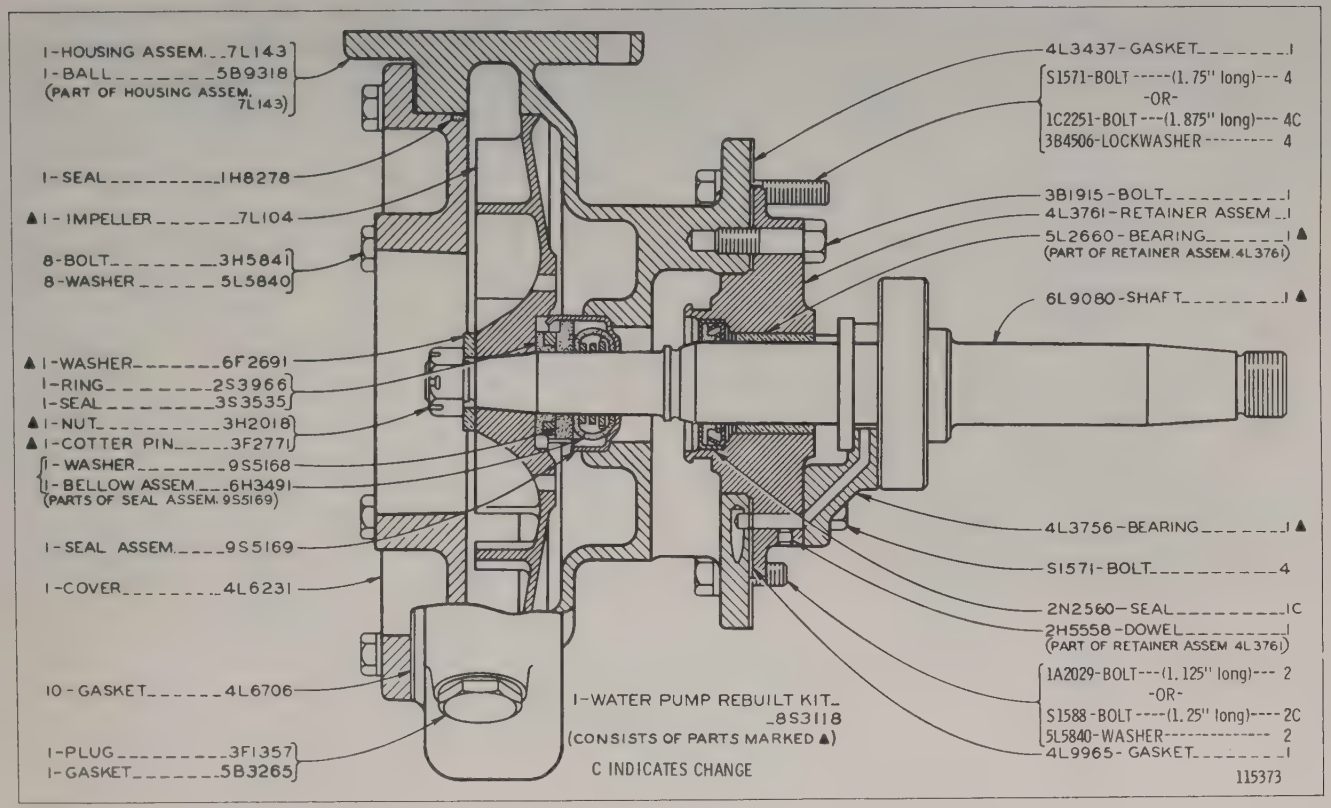
Serial No. 66B1347 to 66B1684 inclusive and 75B336 to 75B637, 75B639 to 75B658 inclusive

Refer also to Pages 117, 118, 122 and 123 for special parts. See Page 42B for Gasket Kit

## 4L8800 WATER PUMP GROUP

Serial No. 66B1685—Up and 75B638 and 75B659—Up

Refer also to Pages 116A through 120C, 122 & 123 for special parts. See Page 42B for Gasket Kit

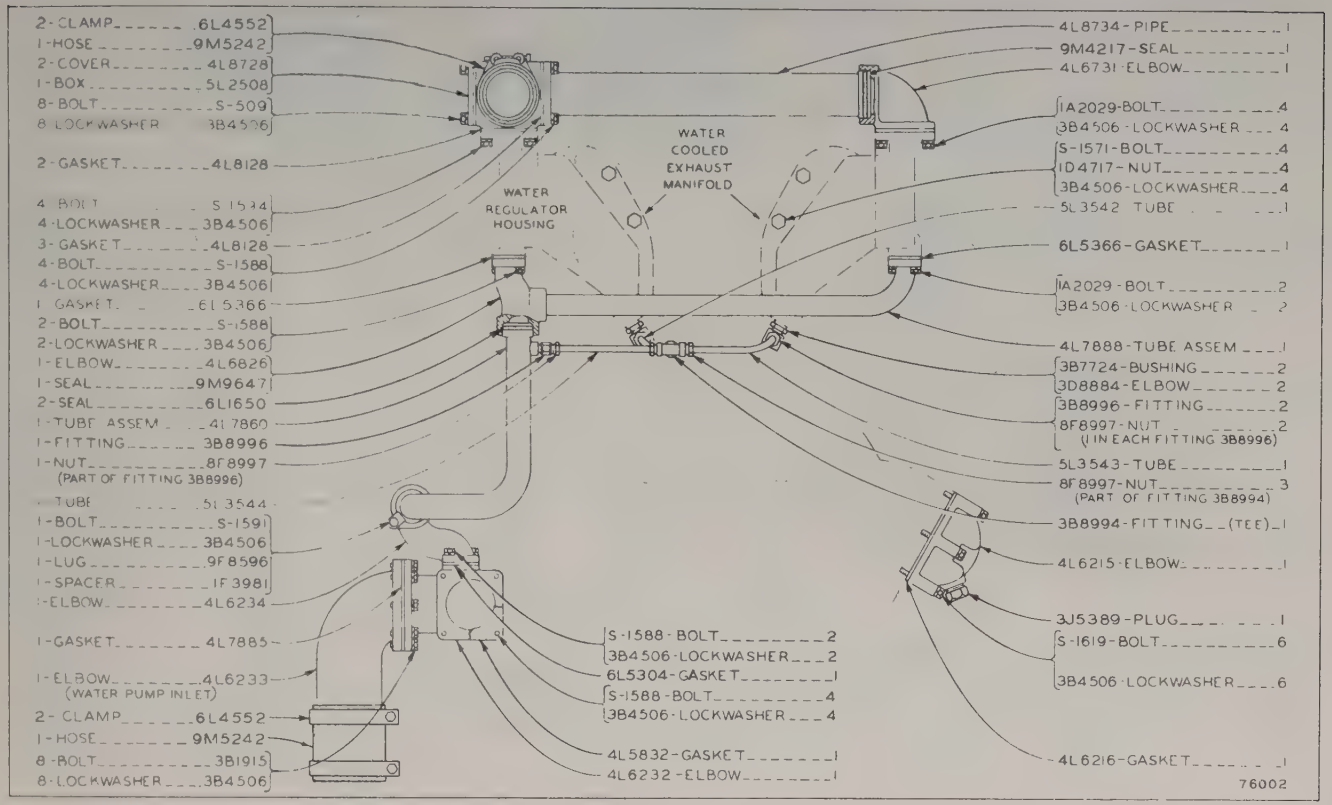


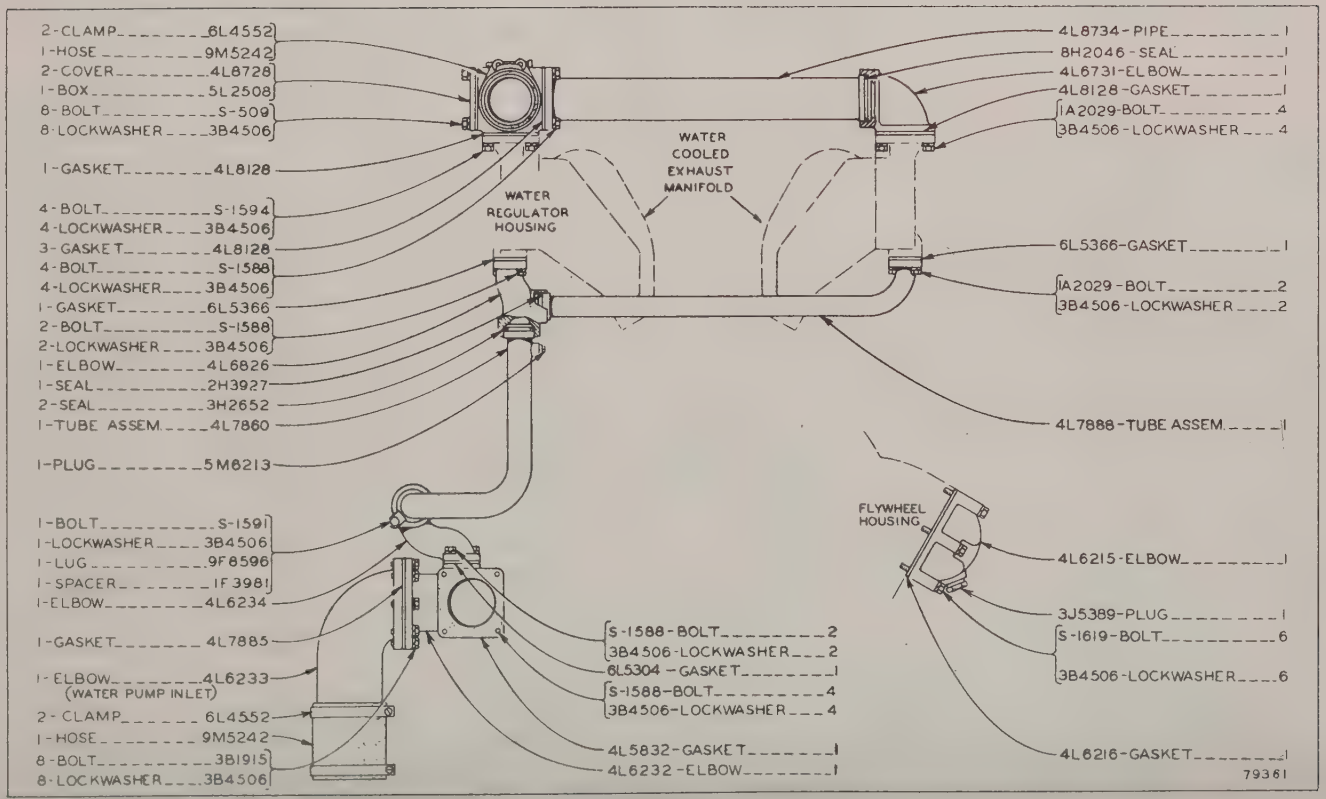
# WATER LINES

Effective with Serial No. 66B700

PART OF 4L1127 S.A.E. STANDARD 5L2664 AND 5L7149 S.A.E. OPPOSITE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS

Refer also to Pages 121 and 124 through 126 for special parts



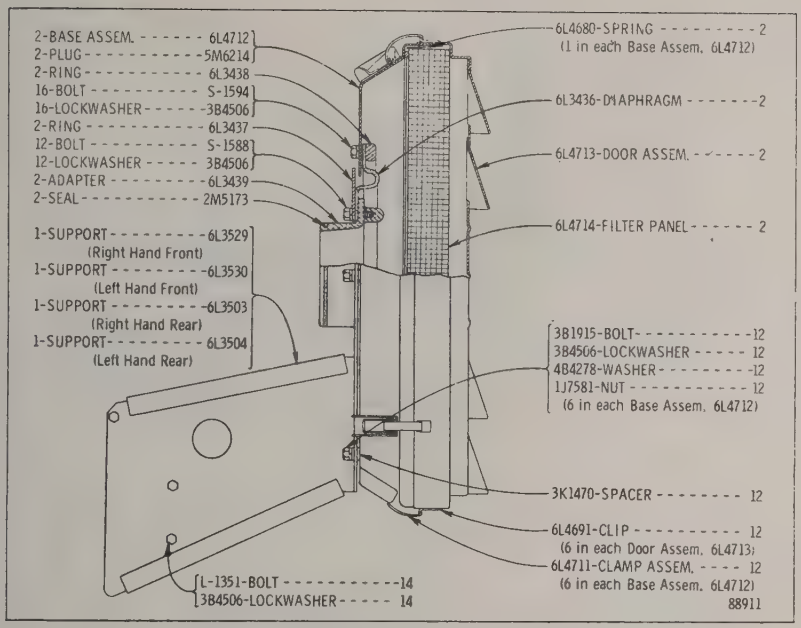



## WATER LINES

Effective with Serial No. 75B1

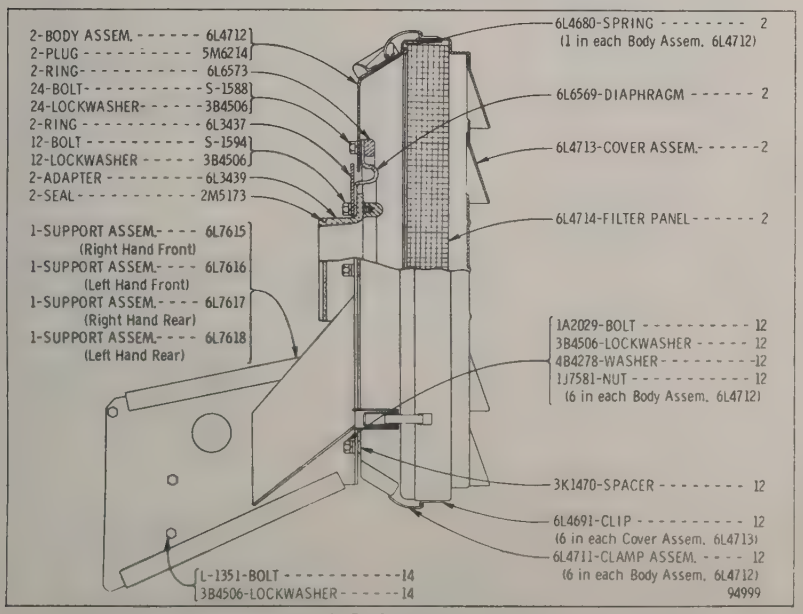
PART OF 6L4984 S.A.E. STANDARD 5L2664 AND 5L7149 S.A.E. OPPOSITE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS

Refer also to Pages 121 and 124 through 126 for special parts



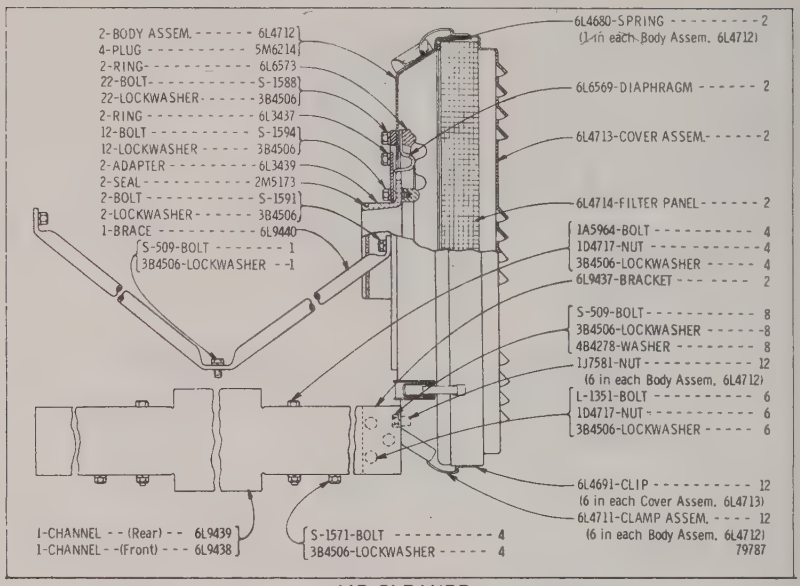

AIR CLEANER

SERIAL NO. 66B700 TO 66B1009 INCLUSIVE & 75B1 TO 75B188 INCLUSIVE. REFER ALSO TO PAGES 128 THRU 130A FOR SPECIAL PARTS




AIR CLEANER

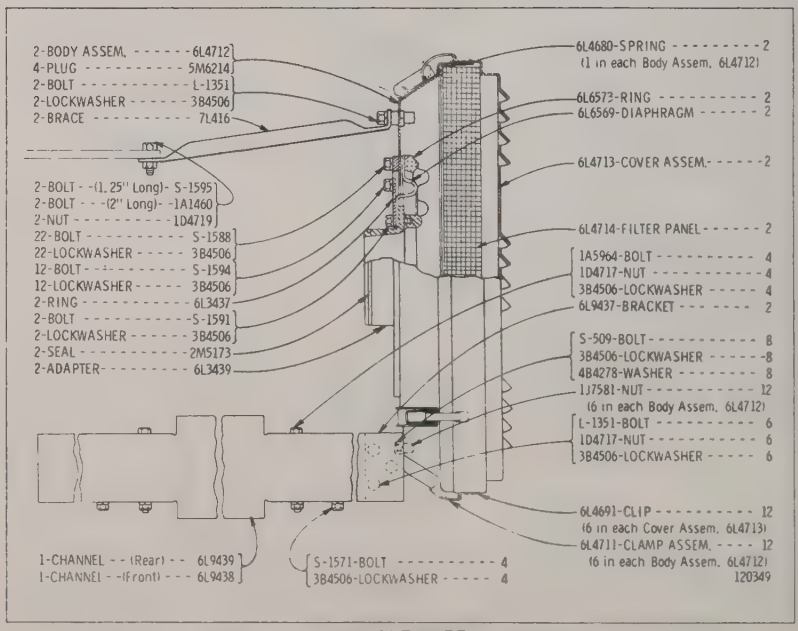
SERIAL NO. 66B1010 TO 66B1414 INCLUSIVE AND 75B189 TO 75B374 INCLUSIVE. REFER ALSO TO PAGES 128 THROUGH 130 FOR SPECIAL PARTS




AIR CLEANER

Serial No. 66B1415 to 1525, 1527, 1528, 1530 and 66B1531 inclusive and 75B375 to 432, 434, 435, 437, 439, 441 to 445, 447 to 450, 452 to 454, 456 to 461, 463, 465 to 469, 471 to 473, 476, 477 and 75B479 inclusive

Refer also to Pages 128 through 130 for special parts



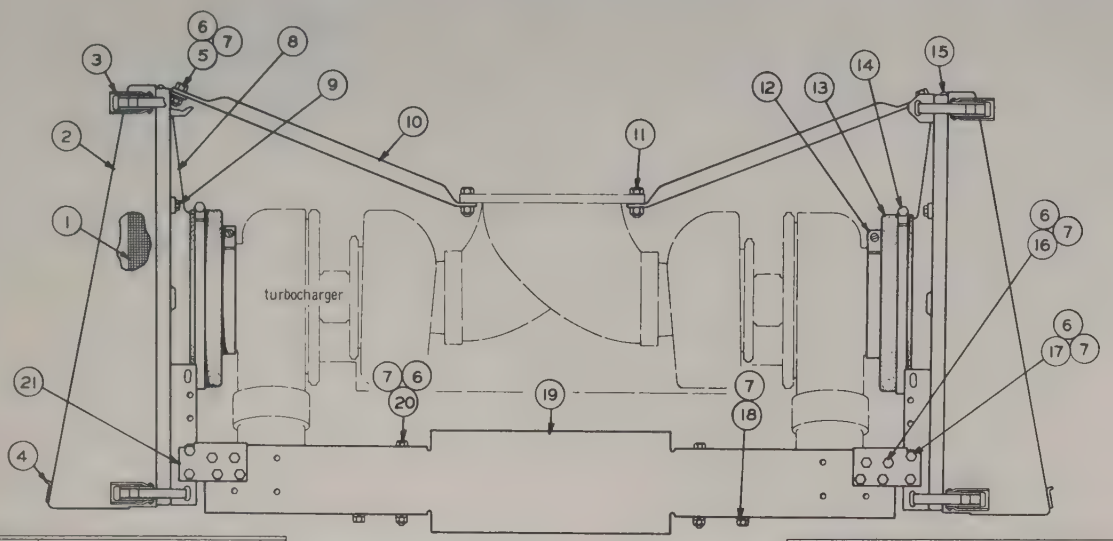

AIR CLEANER

Serial No. 66B1526, 66B1529 and 66B1532 to 66B1690 inclusive and 75B433, 436, 438, 440, 446, 451, 455, 462, 464, 470, 474, 475, 478, 480 to 537, 539 to 652, 654 to 658, 660 to 681 and 687 to 75B689 inclusive

## AIR CLEANER

Serial No. 66B1691 to 66B1780 inclusive and 75B538, 653, 659, 682 to 686 and 690 to 75B839 inclusive

Refer also to Pages 128 through 130 for special parts




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L4714 | FILTER PANEL | 2 |
| 2 | 7L6431 | COVER ASSEM. | 2 |
| 3 | 6L4711 | CLAMP ASSEM. | 8 |
| 4 | 6L4691 | CLIP | 2 |
| | | (One half each in 7L6431 Cover Assem.) | |
| 5 | L-1351 | BOLT | 2 |
| 6 | 1D4717 | NUT | 30 |
| 7 | 3B4506 | LOCKWASHER | 34 |
| 8 | 7L6428 | HOUSING ASSEM. | 2 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 9 | 5M6214 | PLUG | 4 |
| 10 | 7L895 | BRACE | 2 |
| 11 | S-1595 | BOLT | 2 |
| | 1D4719 | NUT | 2 |
| 12 | 5L6501 | CLAMP | 2 |
| 13 | 7L7160 | HOSE | 2 |

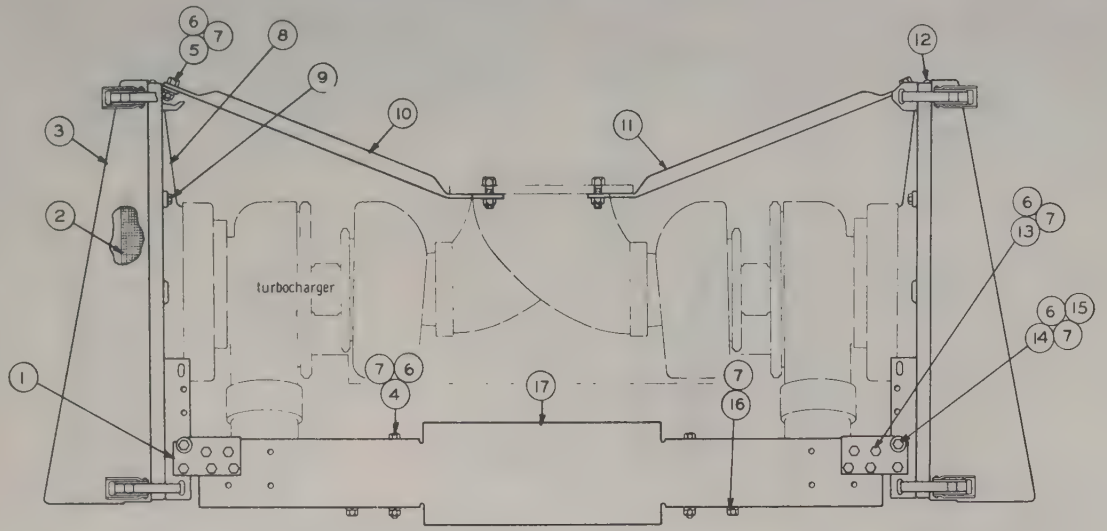
| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 14 | 4J8536 | CLAMP | 2 |
| 15 | 7L6479 | PLUG-----(Button)----- | 16 |
| 16 | S-509 | BOLT | 16 |
| 17 | T-55 | BOLT | 8 |
| | 7L6463 | SPACER | 8 |
| 18 | S-1571 | BOLT | 4 |
| 19 | 6L9438 | CHANNEL | 2 |
| 20 | 1A5964 | BOLT | 4 |
| 21 | 7L6422 | SUPPORT | 4 |

121906

## AIR CLEANER (7L6549 N/S)

**Effective with Serial No. 66B1781—Up and 75B840—Up**

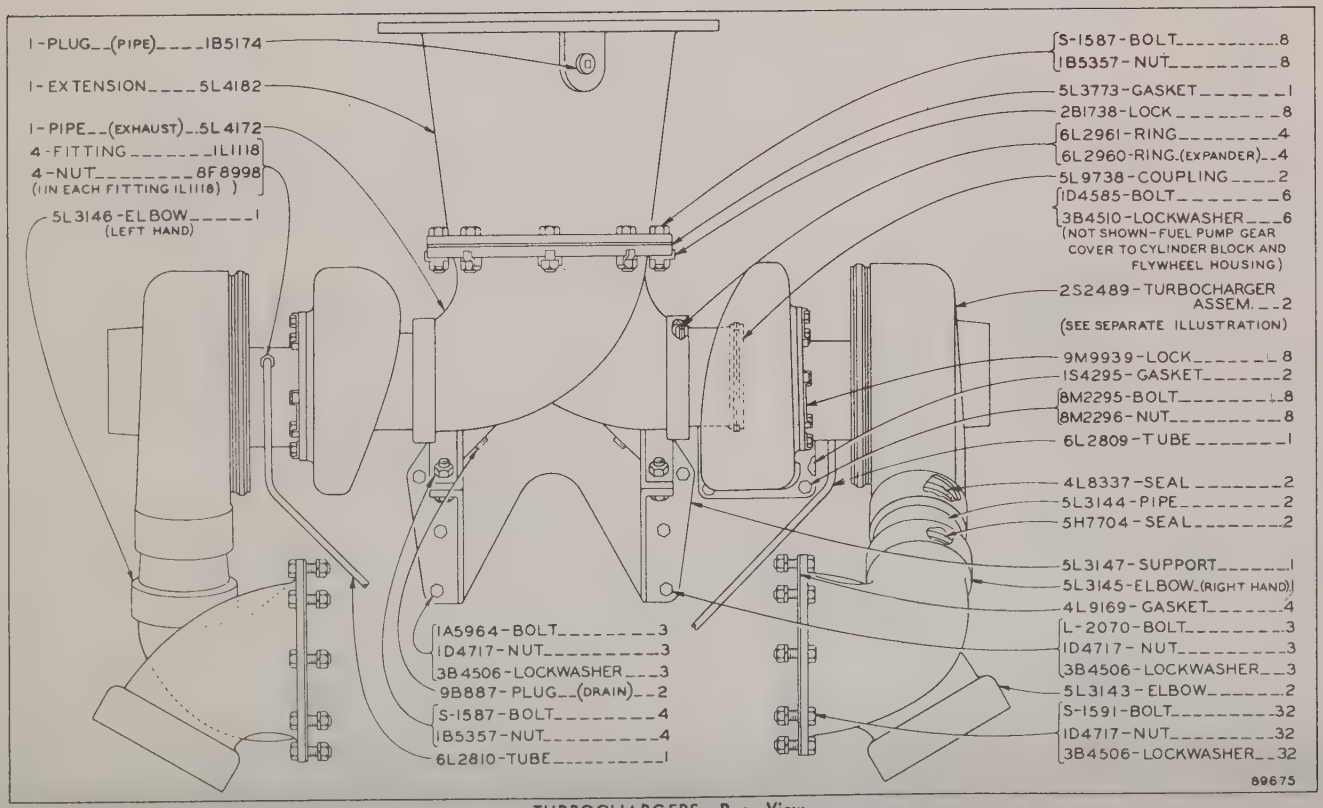
Refer also to Pages 128A, 128B, 129A through 129D & 130A




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L6422 | SUPPORT | 4 |
| 2 | 6L4714 | FILTER PANEL | 2 |
| 3 | 2N3975 | COVER ASSEM. | 2 |
| 4 | 1A5964 | BOLT | 4 |
| 5 | L1351 | BOLT | 2 |
| 6 | 1D4717 | NUT | 30 |
| 7 | 3B4506 | LOCKWASHER | 34 |
| 8 | 7L6428 | HOUSING ASSEM. | 2 |
| 9 | 5M6214 | PLUG | 2 |
| C 10 | 3N881 | BRACE | 2 |
| 11 | S1595 | BOLT | 2 |
| | 1D4719 | NUT | 2 |
| 12 | 7L6479 | PLUG----------(Button)---------- | 16 |
| 13 | S509 | BOLT | 16 |
| 14 | T55 | BOLT | 8 |
| 15 | 4B4278 | WASHER | 4 |
| | 7L6463 | SPACER | 8 |
| 16 | S1571 | BOLT | 4 |
| 17 | 6L9438 | CHANNEL | 2 |

C INDICATES CHANGE

114857




**TURBOCHARGERS—Rear View**

Serial No. 66B700 to 66B785, 66B787 and 66B788 inclusive

PART OF 4L1127 S.A.E. STANDARD 5L2664 AND 5L7149 S.A.E. OPPOSITE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS

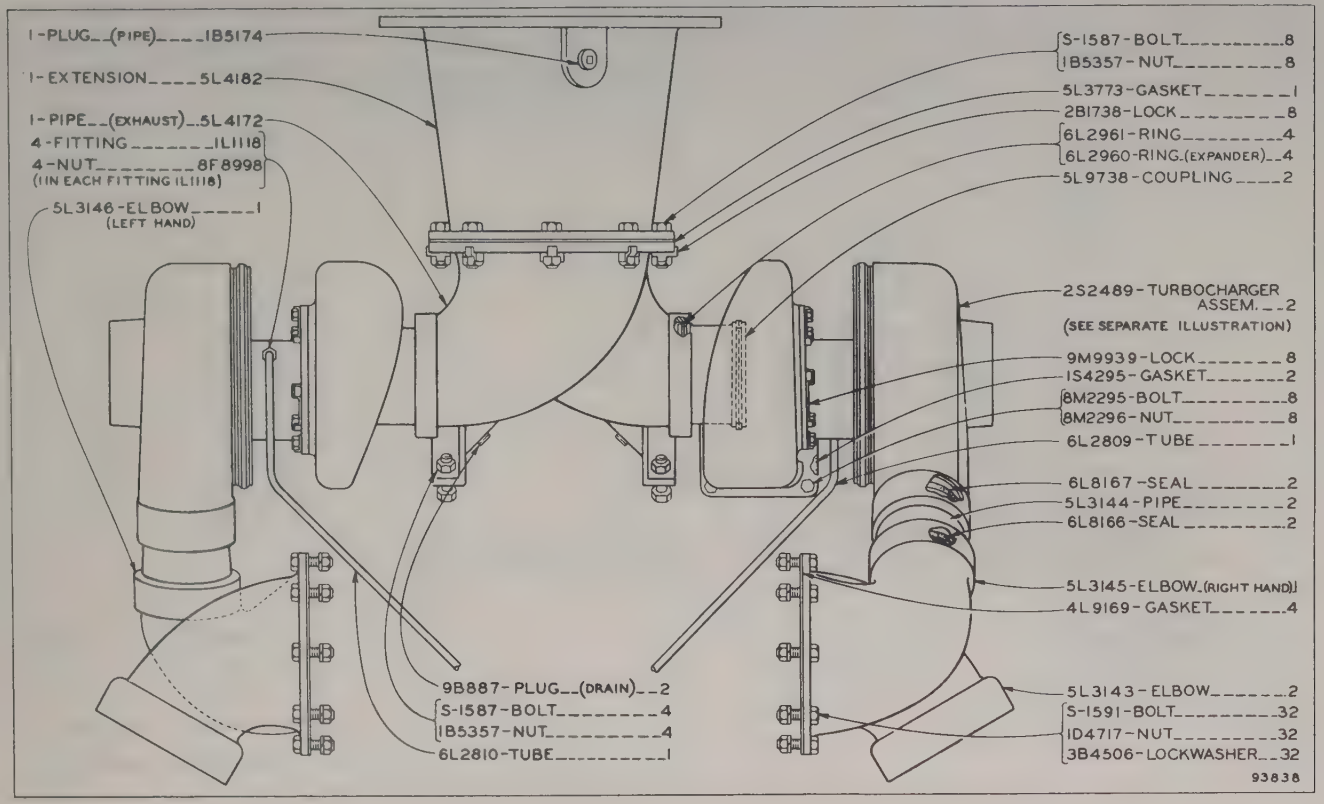
2S2489 Turbocharger Assembly parts are shown on Page 24. Refer also to Pages 154 and 155 for special parts

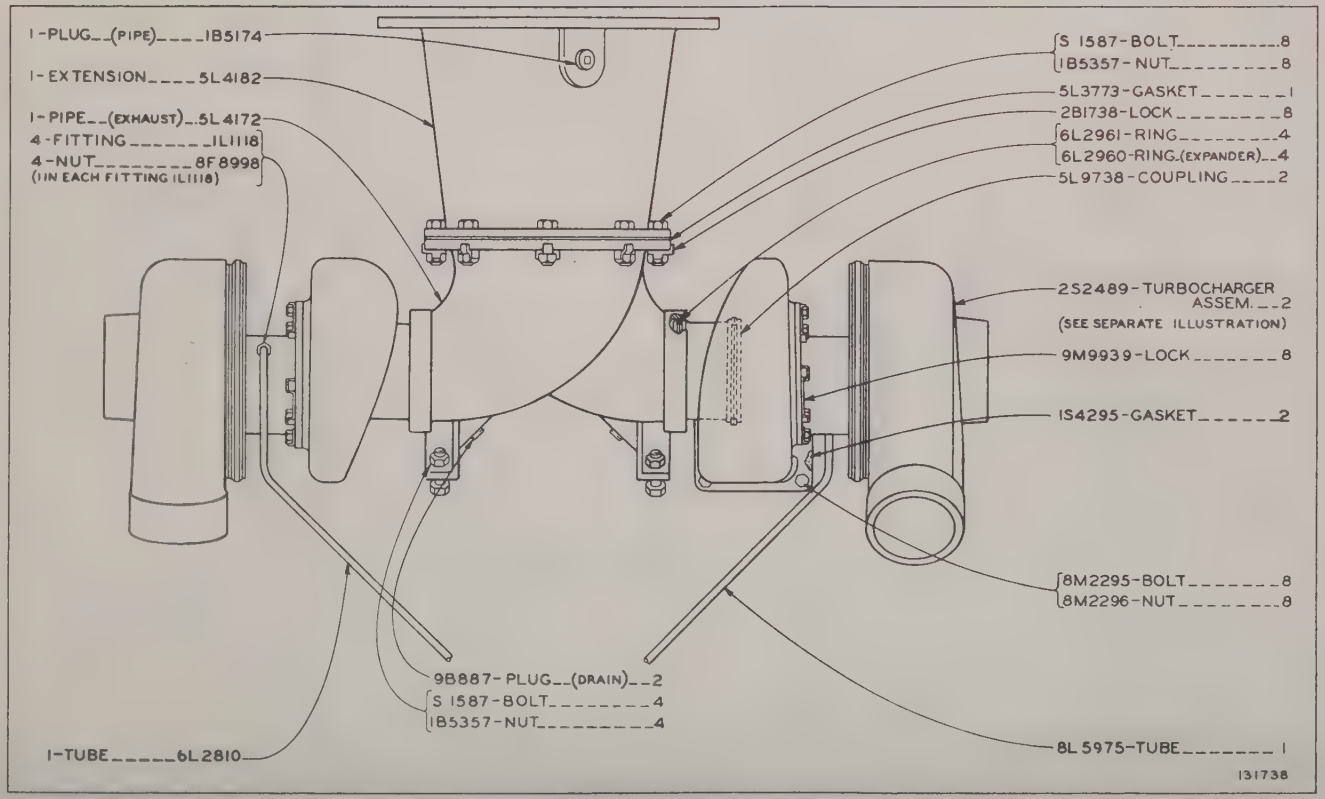
# TURBOCHARGERS--REAR VIEW

SERIAL NO. 66B786 AND 66B789 TO 66B1414 INCLUSIVE

PART OF 4L1127, 5L2664 & 5L7149 ENGINE ARRANGEMENTS LISTED ON PAGE 5

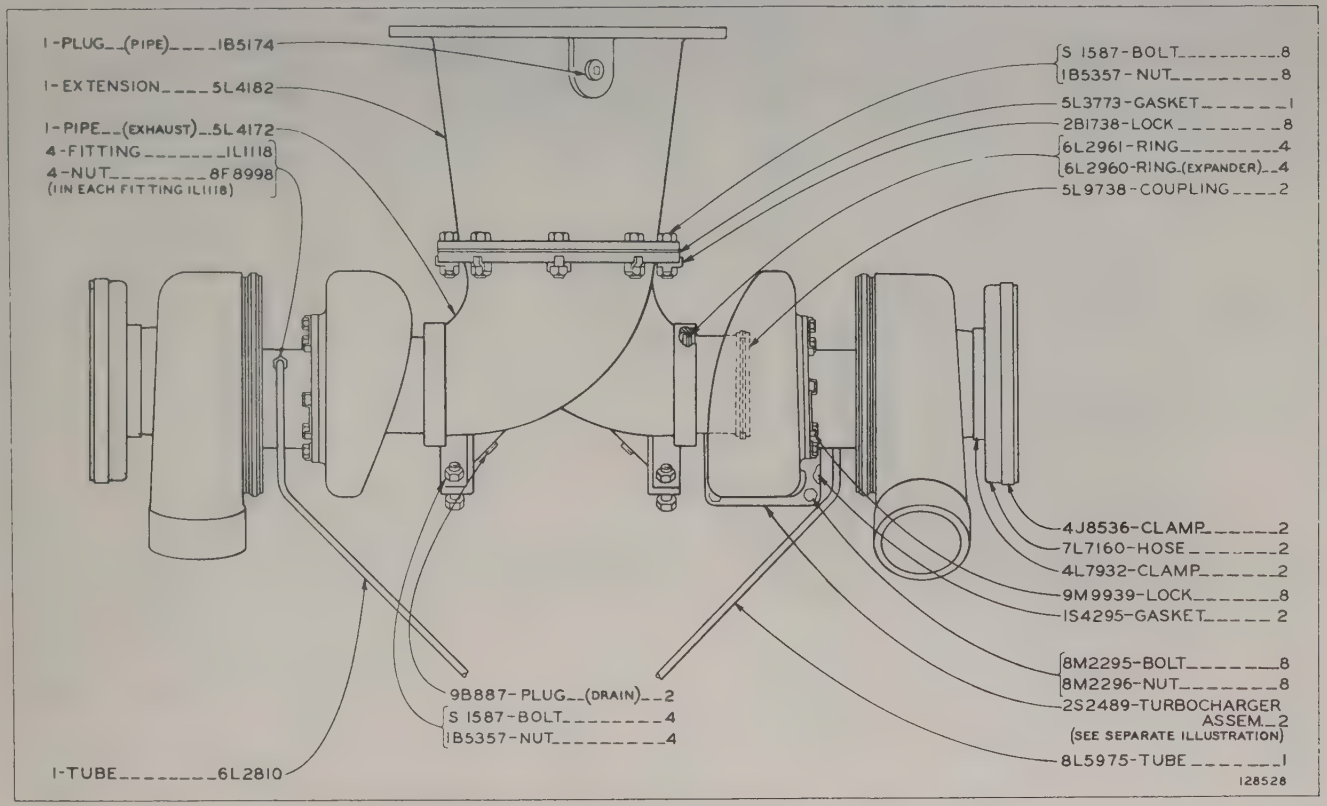
2S2489 TURBOCHARGER PARTS ARE SHOWN ON PAGE 24. REFER ALSO TO PAGES 154 THRU 159 FOR SPECIAL PARTS

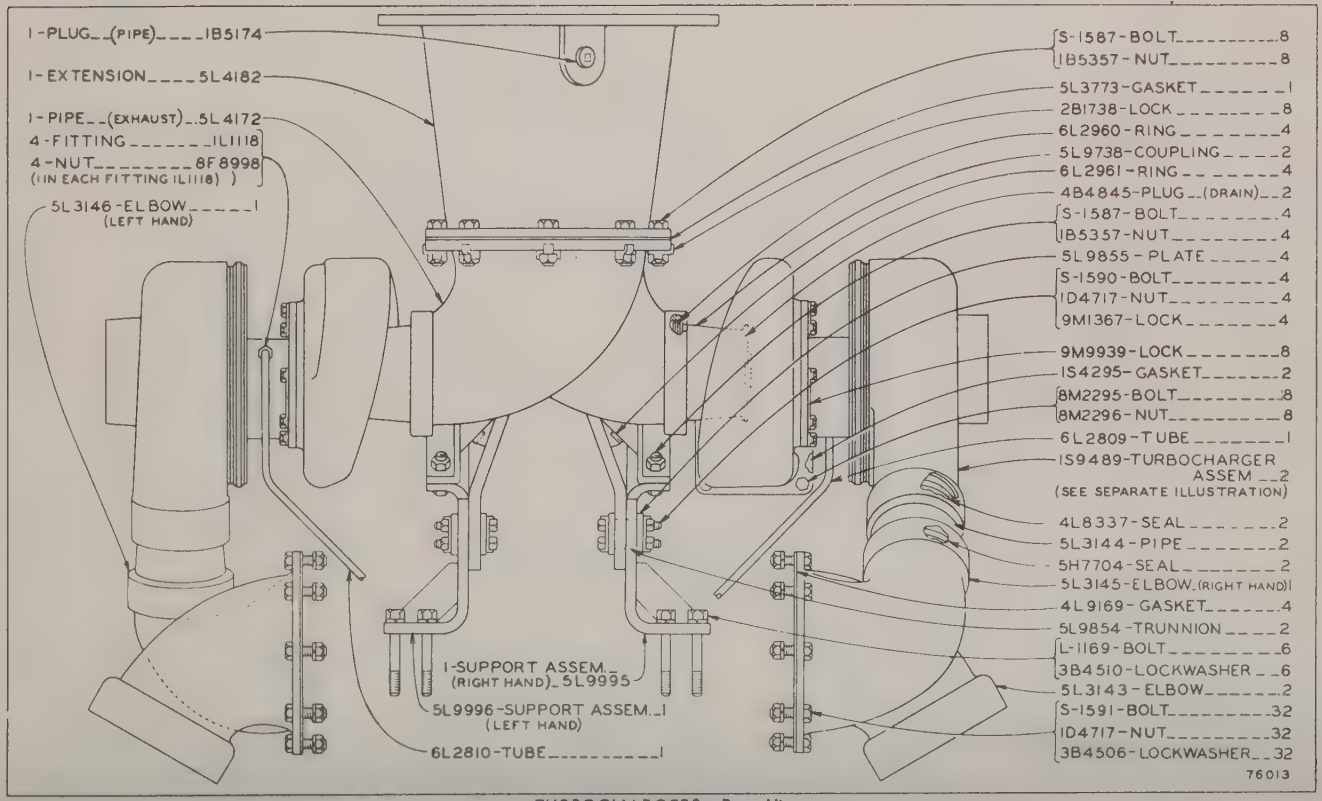





TURBOCHARGERS (7L4506 N/S)—Rear View
Serial No. 66B1415 to 66B1780 inclusive
PART OF 4L1127 S.A.E. STANDARD 5L2664 AND 5L7149 S.A.E. OPPOSITE STANDARD ENGINE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS. 2S2489 Turbocharger parts are shown on Page 24. Refer also to Pages 154 through 155 for special parts

TURBOCHARGERS (7L4506 N/S)—Rear View
Serial No. 66B1781—Up
PART OF 4L1127 S.A.E. STANDARD 5L2664 AND 5L7149 S.A.E. OPPOSITE STANDARD ENGINE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS. 2S2489 Turbocharger parts are shown on Page 24. Refer also to Pages 154B and 155 for special parts






**TURBOCHARGERS—Rear View**

Serial No. 75B1 to 75B95 inclusive

PART OF 6L4984 S.A.E. STANDARD 5L2664 AND 5L7149 S.A.E. OPPOSITE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS

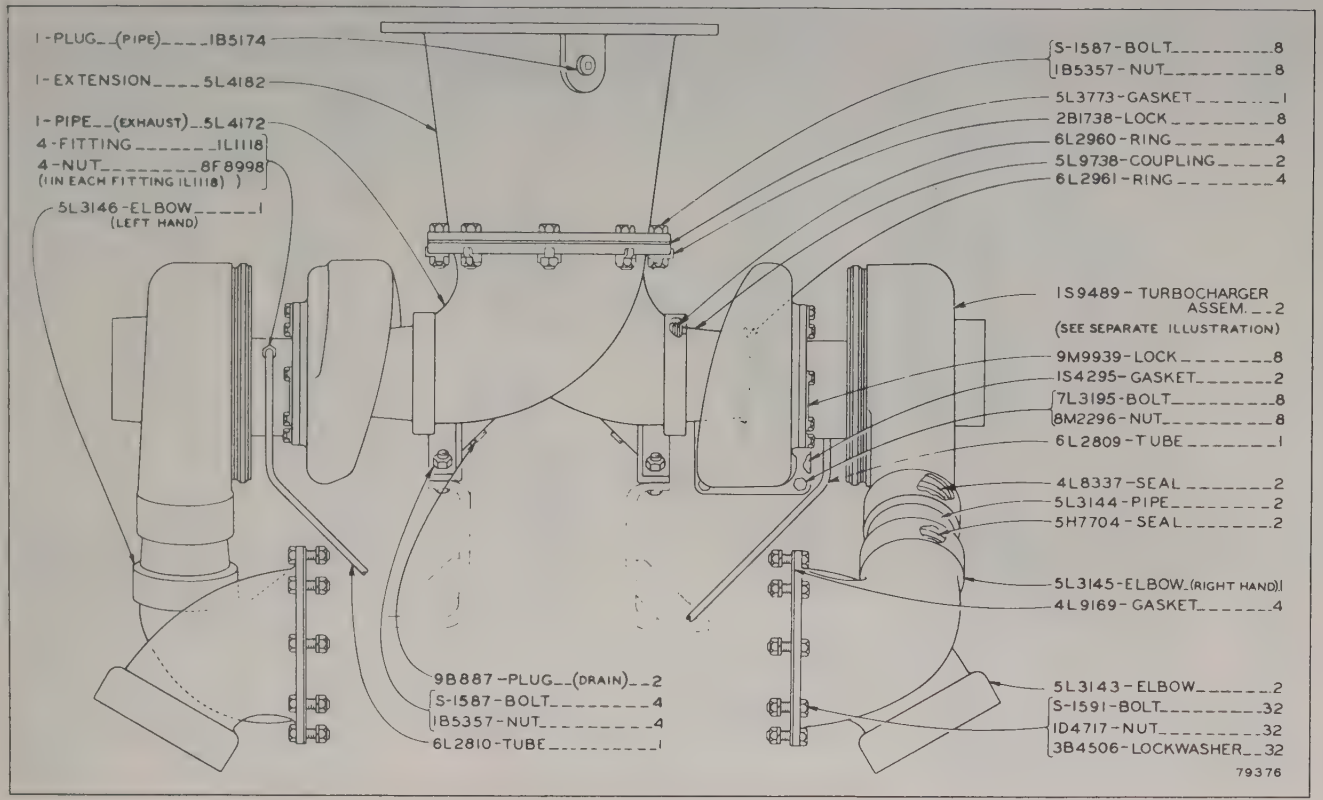
1S9489 Turbocharger Assembly parts are shown on Page 25

# TURBOCHARGERS--REAR VIEW

SERIAL NO. 75B96 TO 75B374 INCLUSIVE

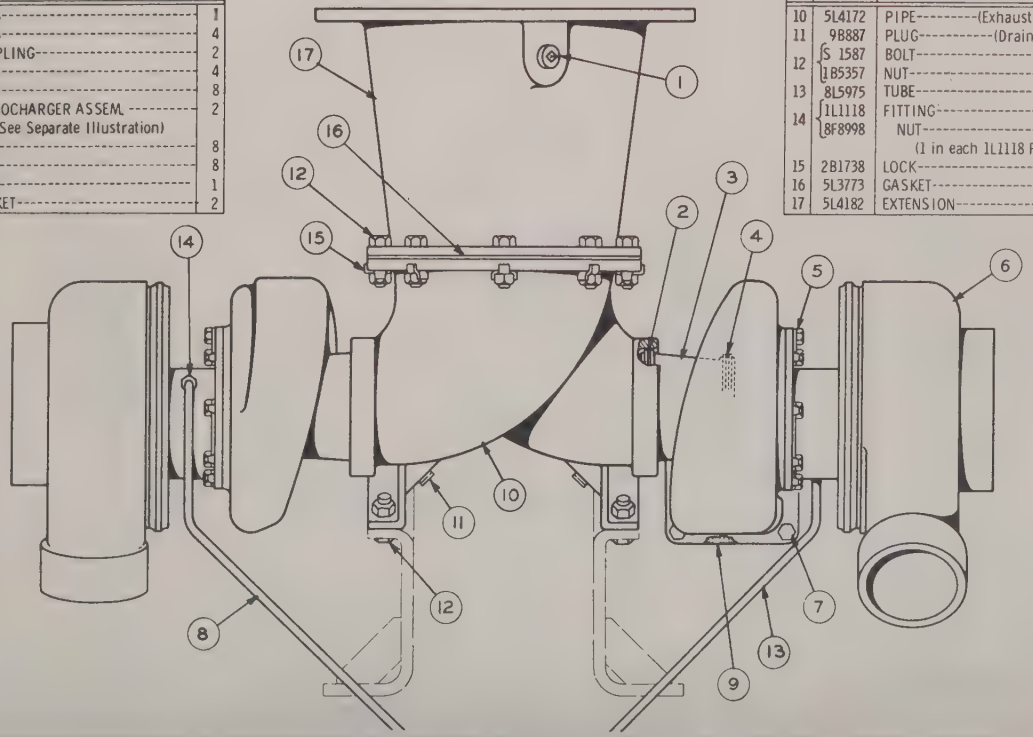
PART OF 6L4984, 5L2664 AND 5L7149 ENGINE ARRANGEMENTS LISTED ON PAGE 5

1S9489 TURBOCHARGER PARTS ARE SHOWN ON PAGE 25



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 1B5174 | PLUG | 1 |
| 2 | 6L2960 | RING | 4 |
| 3 | 5L9738 | COUPLING | 2 |
| 4 | 6L2961 | RING | 4 |
| 5 | 9M9939 | LOCK | 8 |
| 6 | 1S9489 | TURBOCHARGER ASSEM. (See Separate Illustration) | 2 |
| 7 | 7L3195 | BOLT | 8 |
| | 8M2296 | NUT | 8 |
| 8 | 6L2810 | TUBE | 1 |
| 9 | 1S4295 | GASKET | 2 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 10 | 5L4172 | PIPE (Exhaust) | 1 |
| 11 | 9B887 | PLUG (Drain) | 2 |
| 12 | S 1587 | BOLT | 12 |
| | 1B5357 | NUT | 12 |
| 13 | 8L5975 | TUBE | 1 |
| 14 | 1L1118 | FITTING | 4 |
| | 8F8998 | NUT (1 in each 1L1118 Fitting) | 4 |
| 15 | 2B1738 | LOCK | 8 |
| 16 | 5L3773 | GASKET | 1 |
| 17 | 5L4182 | EXTENSION | 1 |




TURBOCHARGERS (6L2493 N/S)—Rear View
Serial No. 75B375 to 75B839 inclusive
PART OF 6L4984 S.A.E. STANDARD AND 5L7149 S.A.E. OPPOSITE STANDARD ENGINE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS. 1S9489 Turbocharger parts are shown on Page 25. Refer also to Pages 156 through 157B for special parts

## TURBOCHARGERS (6L2493 N/S)—Rear View

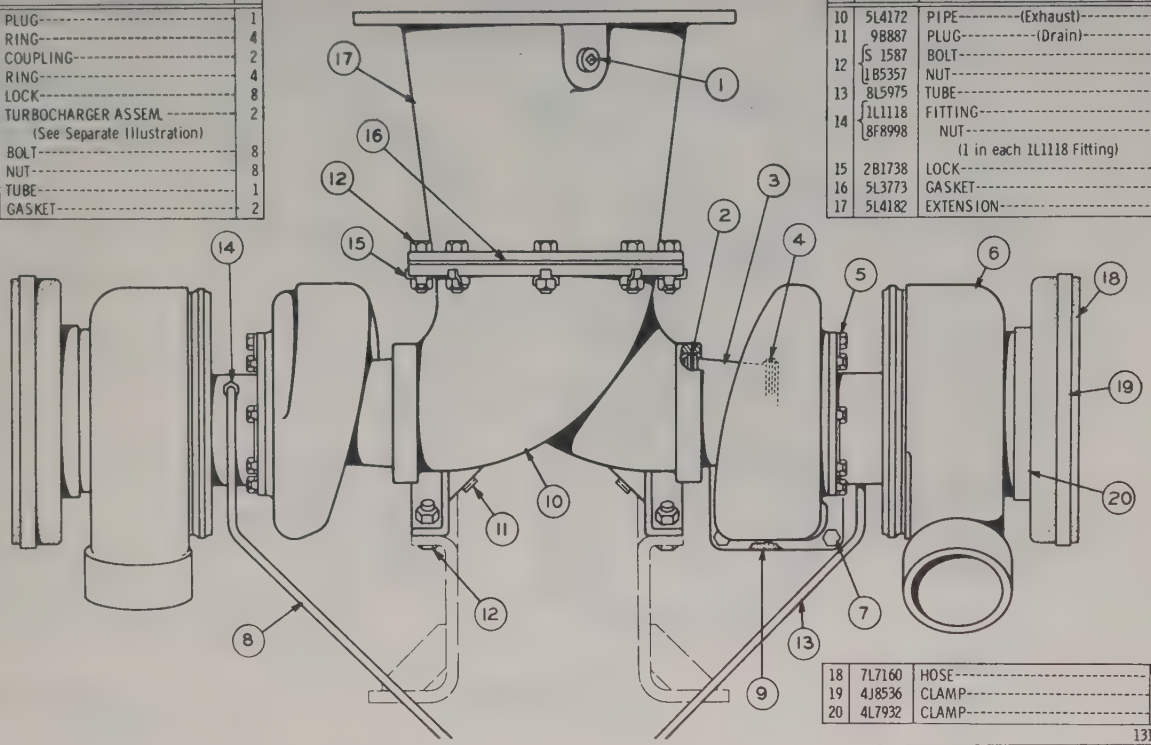
Serial No. 75B840—Up

Part of 6L4984 S.A.E. Standard and 5L7149 S.A.E. Opposite Standard Engine Rotation Turbocharged Engine Arrangements

1S9489 Turbocharger parts are shown on Page 25. Refer also to Pages 156 through 157B for special parts

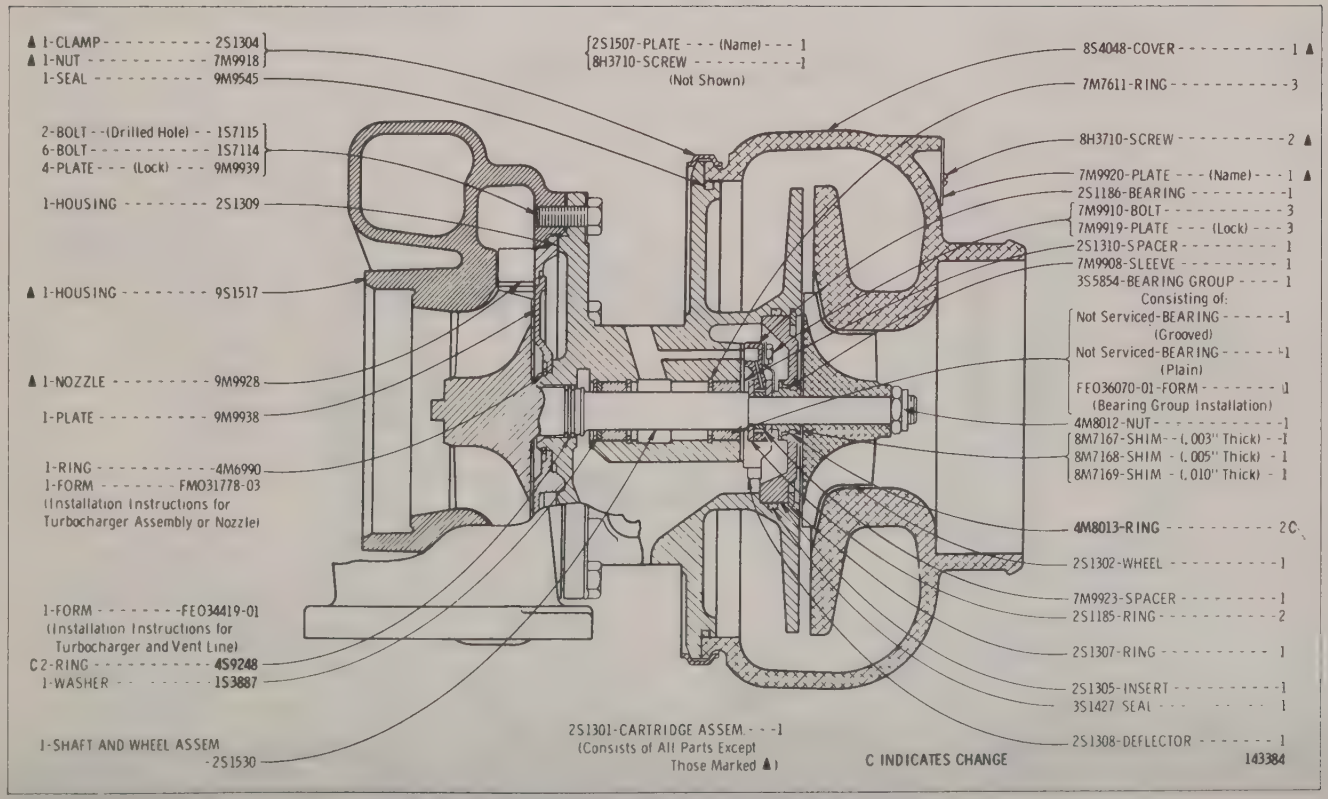
| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 1B5174 | PLUG | 1 |
| 2 | 6L2960 | RING | 4 |
| 3 | 5L9738 | COUPLING | 2 |
| 4 | 6L2961 | RING | 4 |
| 5 | 9M9939 | LOCK | 8 |
| 6 | 1S9489 | TURBOCHARGER ASSEM. (See Separate Illustration) | 2 |
| 7 | 7L3195 | BOLT | 8 |
| | 8M2296 | NUT | 8 |
| 8 | 6L2810 | TUBE | 1 |
| 9 | 1S4295 | GASKET | 2 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 10 | 5L4172 | PIPE—(Exhaust) | 1 |
| 11 | 9B887 | PLUG—(Drain) | 2 |
| 12 | S 1587 | BOLT | 12 |
| | 1B5357 | NUT | 12 |
| 13 | 8L5975 | TUBE | 1 |
| 14 | 1L1118 | FITTING | 4 |
| | 8F8998 | NUT (1 in each 1L1118 Fitting) | 4 |
| 15 | 2B1738 | LOCK | 8 |
| 16 | 5L3773 | GASKET | 1 |
| 17 | 5L4182 | EXTENSION | 1 |



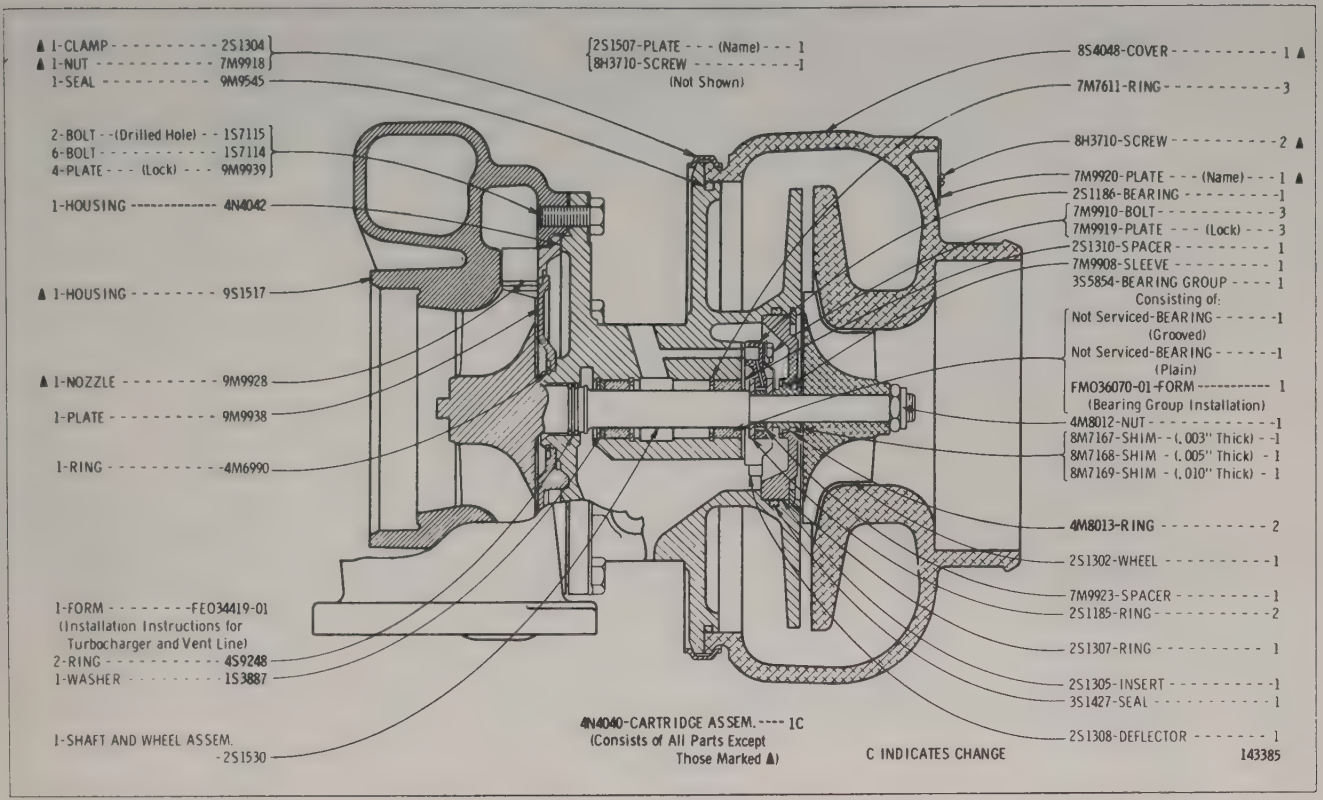

| | | | |
|---|---|---|---|
| 18 | 7L7160 | HOSE | 2 |
| 19 | 4J8536 | CLAMP | 2 |
| 20 | 4L7932 | CLAMP | 2 |

131740



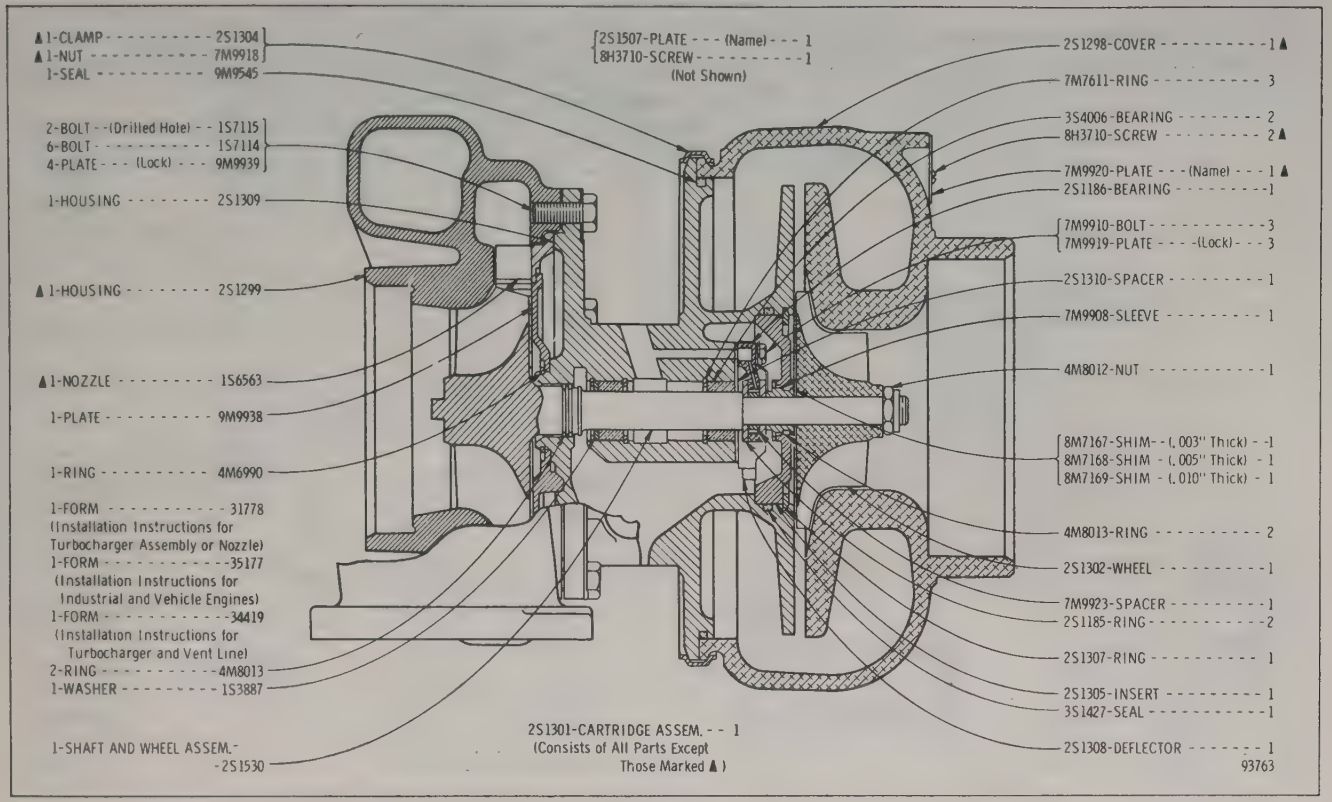

2S2489 TURBOCHARGER ASSEMBLY—2 Assemblies Required—Type 1
Part of Turbochargers shown on Pages 20, 20A, 20B and 21
FOR USE WITH 6L4984 STANDARD ROTATION TURBOCHARGED ENGINE ARRANGEMENT
Also available as an attachment for Serial No. 75B1—Up

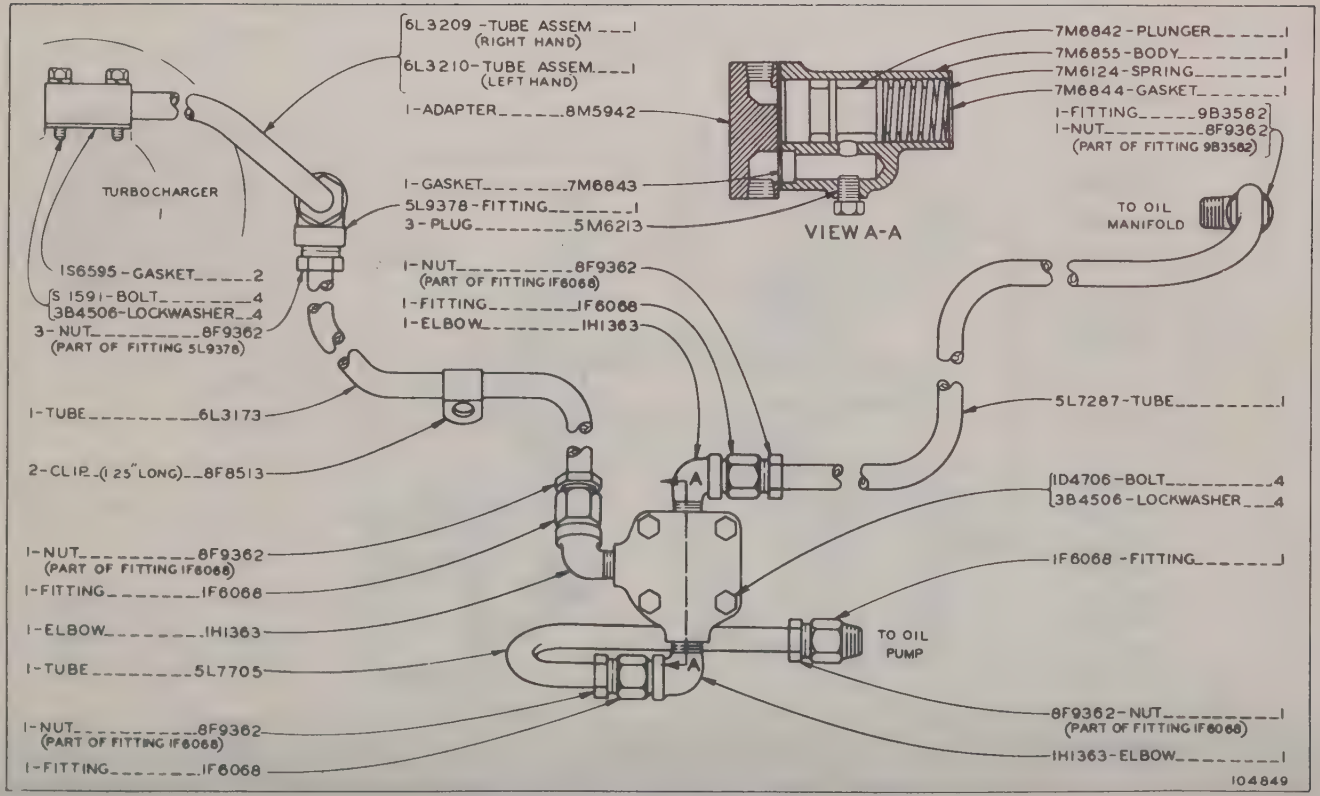
2S2489 TURBOCHARGER ASSEMBLY—2 Assemblies Required—Type 2
Part of Turbochargers shown on Pages 20, 20A, 20B and 21
FOR USE WITH 6L4984 STANDARD ROTATION TURBOCHARGED ENGINE ARRANGEMENT
Also available as an Attachment for Serial No. 75B1—Up



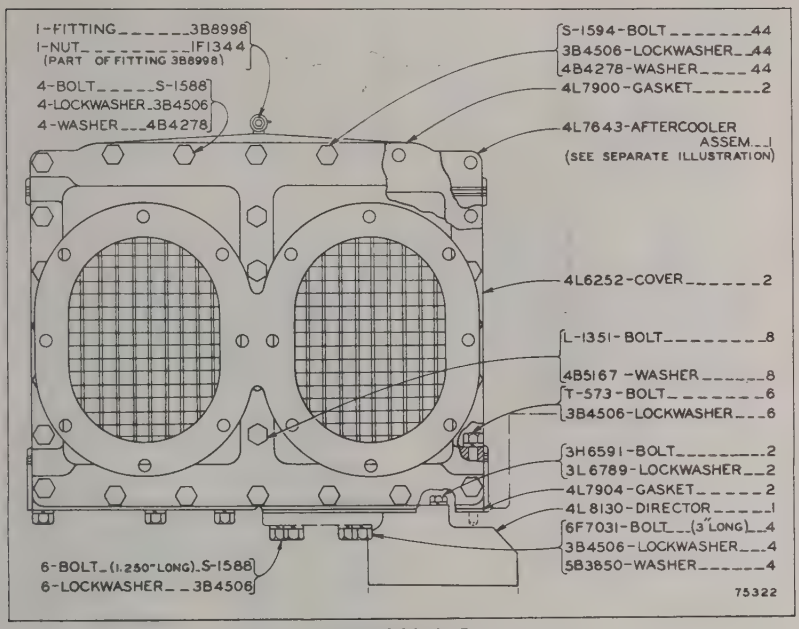
## 1S9489 TURBOCHARGER ASSEMBLY—2 Assemblies Required

Part of Turbochargers shown on Pages 22 and 23

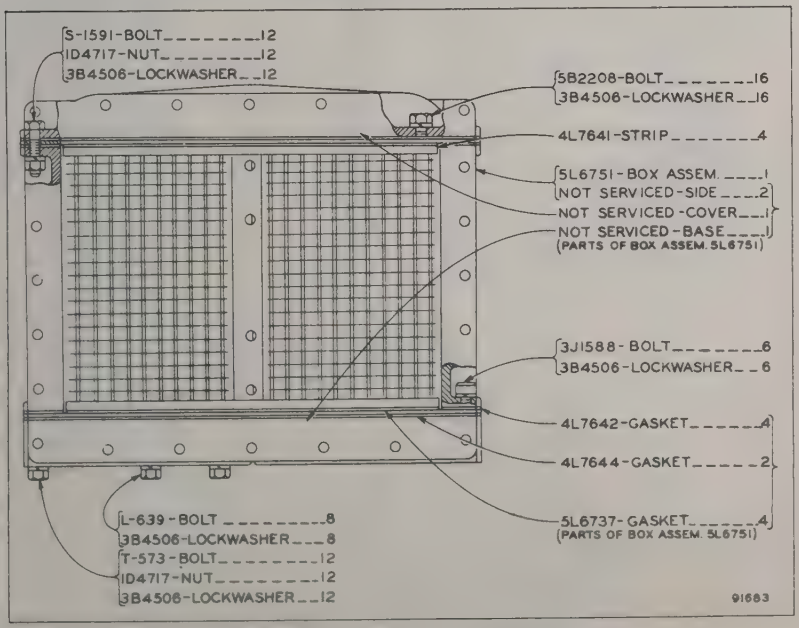




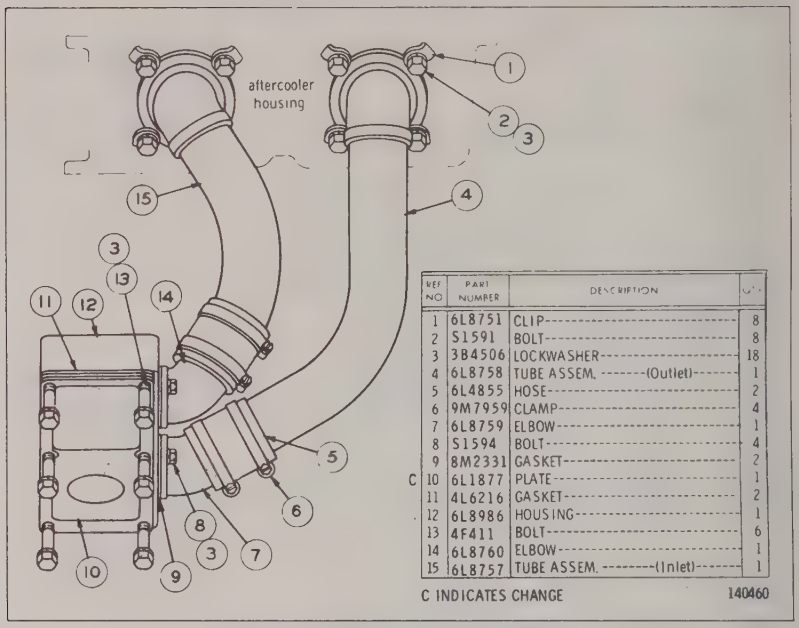

6L3174 TURBOCHARGER LUBRICATION VALVE GROUP




AFTERCOOLER
SERIAL NO. 66B700 TO 66B1414 & 75B1 TO 75B374 INCLUSIVE
REFER ALSO TO PAGES 127 AND 128 FOR SPECIAL PARTS




4L7643 AFTERCOOLER ASSEMBLY
PART OF AFTERCOOLER

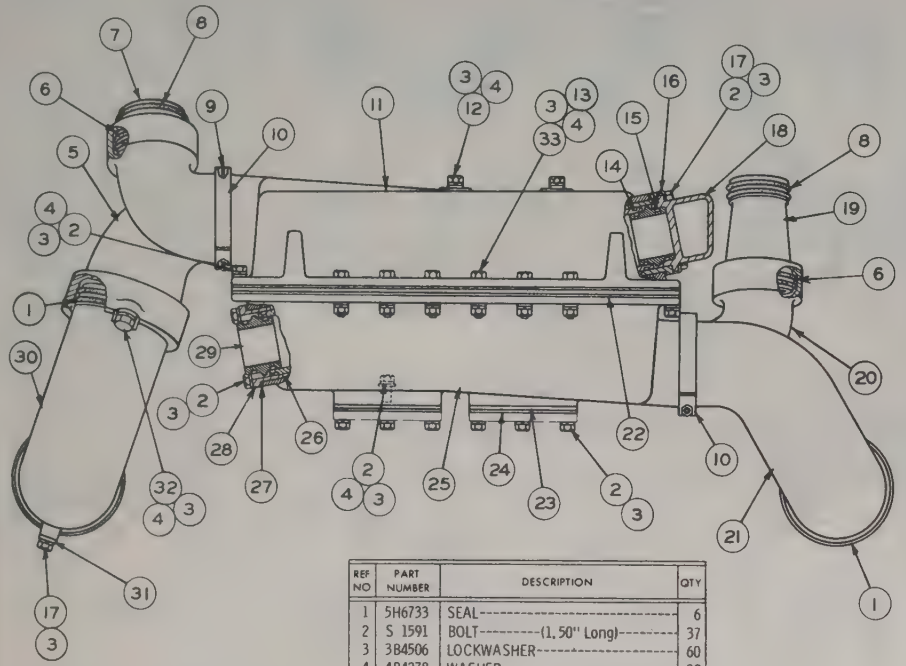



| REF NO | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 6L8751 | CLIP | 8 |
| 2 | S1591 | BOLT | 8 |
| 3 | 3B4506 | LOCKWASHER | 18 |
| 4 | 6L8758 | TUBE ASSEM. (Outlet) | 1 |
| 5 | 6L4855 | HOSE | 2 |
| 6 | 9M7959 | CLAMP | 4 |
| 7 | 6L8759 | ELBOW | 1 |
| 8 | S1594 | BOLT | 4 |
| 9 | 8M2331 | GASKET | 2 |
| C 10 | 6L1877 | PLATE | 1 |
| 11 | 4L6216 | GASKET | 2 |
| 12 | 6L8986 | HOUSING | 1 |
| 13 | 4F411 | BOLT | 6 |
| 14 | 6L8760 | ELBOW | 1 |
| 15 | 6L8757 | TUBE ASSEM. (Inlet) | 1 |

C INDICATES CHANGE 140460

AFTERCOOLER CONNECTIONS (6L8992 N/S)
Serial No. 66B1415—Up and 75B375—Up

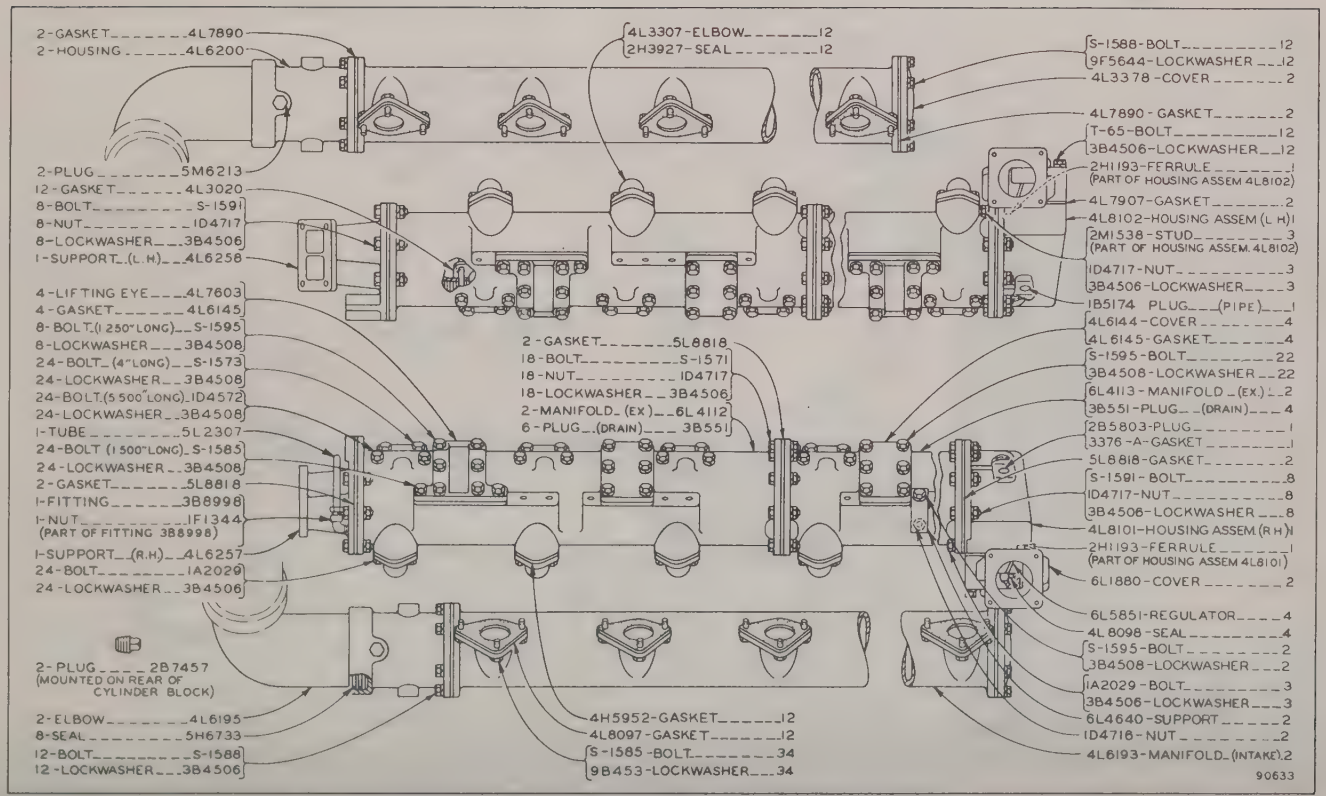
## 6L6292 AFTERCOOLER GROUP—Jacket Water
Serial No. 66B1415—Up and 75B375—Up
Refer also to Pages 126H, 126J, 126K & 128A for special parts



| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5H6733 | SEAL | 6 |
| 2 | S 1591 | BOLT---------(1.50" Long)--------- | 37 |
| 3 | 3B4506 | LOCKWASHER | 60 |
| 4 | 4B4278 | WASHER | 32 |

| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 5 | 6L6482 | ELBOW | 1 |
| 6 | 6L8166 | SEAL | 4 |
| 7 | 6L6484 | PIPE | 1 |
| 8 | 6L8167 | SEAL | 4 |
| 9 | 6L6487 | GASKET | 4 |
| 10 | 5L7631 | CLAMP | 4 |
| 11 | 6L6293 | HOUSING | 1 |
| 12 | 4F411 | BOLT | 3 |
| 13 | 1D4717 | NUT | 12 |
| 14 | 9F4446 | SEAL | 4 |
| 15 | 2H2665 | SEAL | 8 |
| 16 | 6L8751 | CLIP | 4 |
| 17 | S 1594 | BOLT---------(1.00" Long)-------- | 6 |
| 18 | 6L6491 | PIPE | 1 |
| 19 | 6L6483 | PIPE | 1 |
| 20 | 6L6481 | ELBOW | 2 |
| 21 | 6L6485 | ELBOW | 1 |
| 22 | 6L6480 | GASKET | 2 |
| 23 | 6L6494 | PLATE | 2 |
| 24 | 4L7904 | GASKET | 2 |
| 25 | 6L6294 | HOUSING | 1 |
| 26 | 6L6297 | CORE ASSEM. | 1 |
| | 6L6295 | CORE ASSEM. | 1 |
| 27 | 6L6489 | GASKET | 4 |
| 28 | 6L6488 | FLANGE | 4 |
| 29 | 6L6490 | SLEEVE | 4 |
| 30 | 6L6486 | ELBOW | 1 |
| 31 | 6L6493 | LOCK | 1 |
| 32 | 1A2029 | BOLT | 1 |
| | 1S6908 | PLATE | 1 |
| 33 | S1591 | BOLT---------(1.50" long)--------- | 1 |
| | S1571 | BOLT----------(1.75" long)-------- | 12 |
| | | -OR- | |
| | S1571 | BOLT---------(1.75" long)--------- | 13 |

108641




**MANIFOLDS—Top View**

Serial No. 66B700 to 66B785, 66B787 and 66B788 inclusive

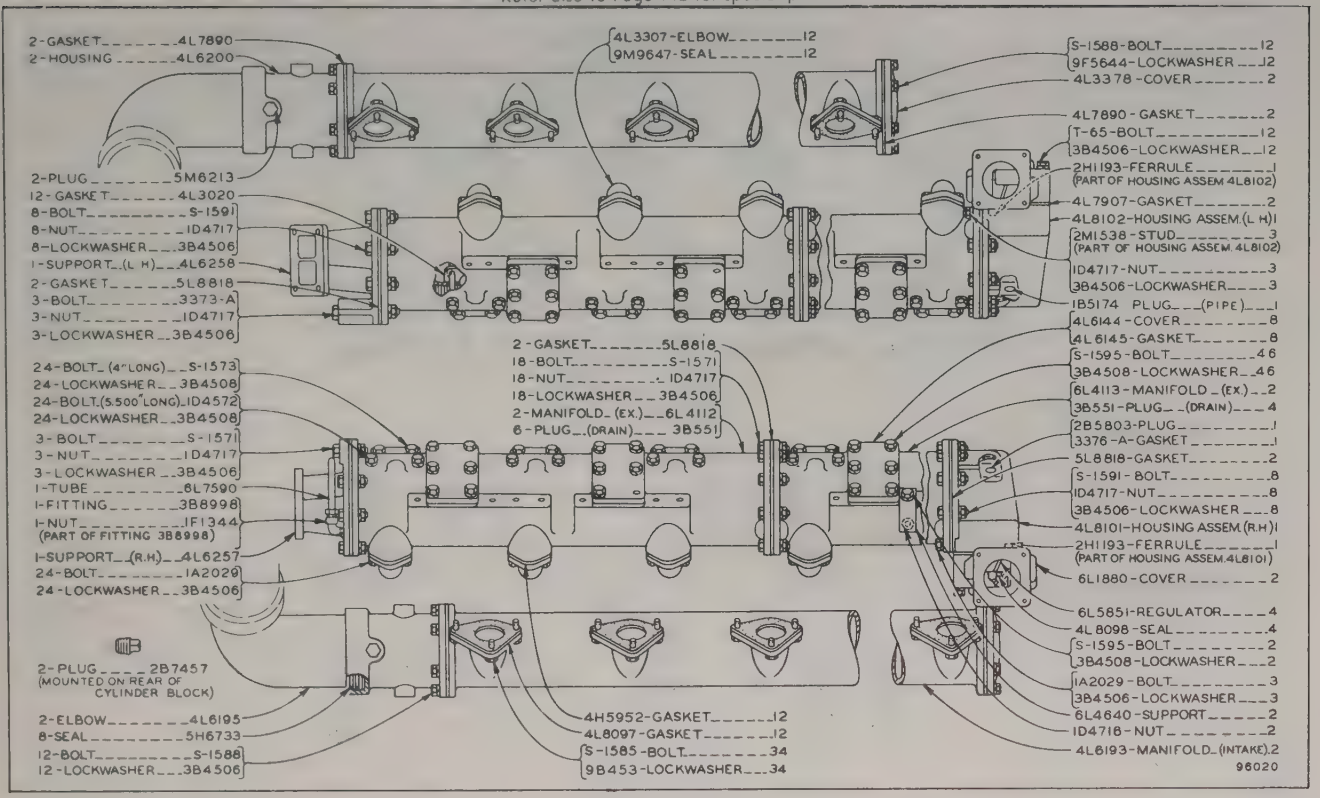
PART OF 4L1127 S.A.E. STANDARD 5L2664 AND 5L7149 S.A.E. OPPOSITE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS

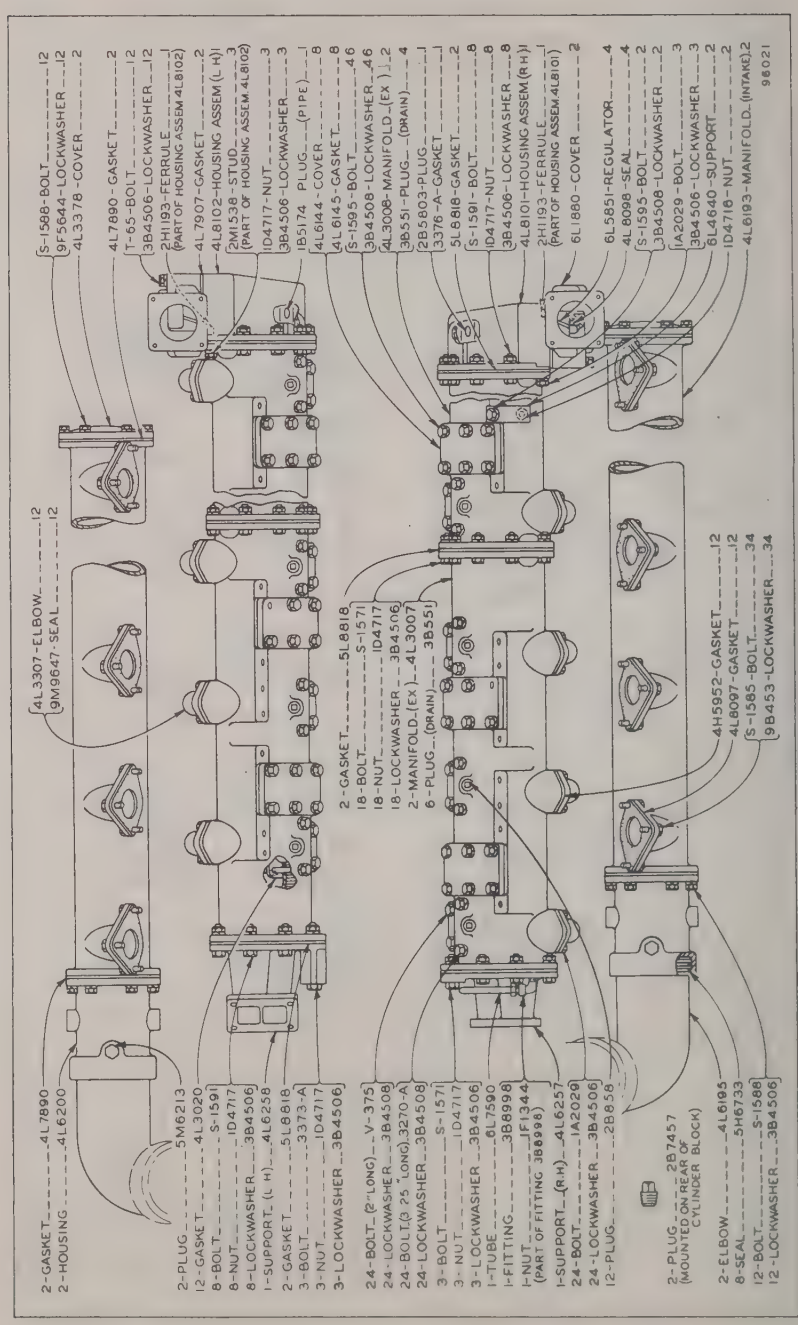
Refer also to Page 142 for special parts

## MANIFOLDS—Top View

Serial No. 66B786, 66B789 to 66B1151, 66B1155 and 66B1180 to 66B1192 inclusive
PART OF 4L1127 S.A.E. STANDARD, 5L2664 AND 5L7149 S.A.E. OPPOSITE STANDARD
ROTATION TURBOCHARGED ENGINE ARRANGEMENTS

Refer also to Page 142 for special parts



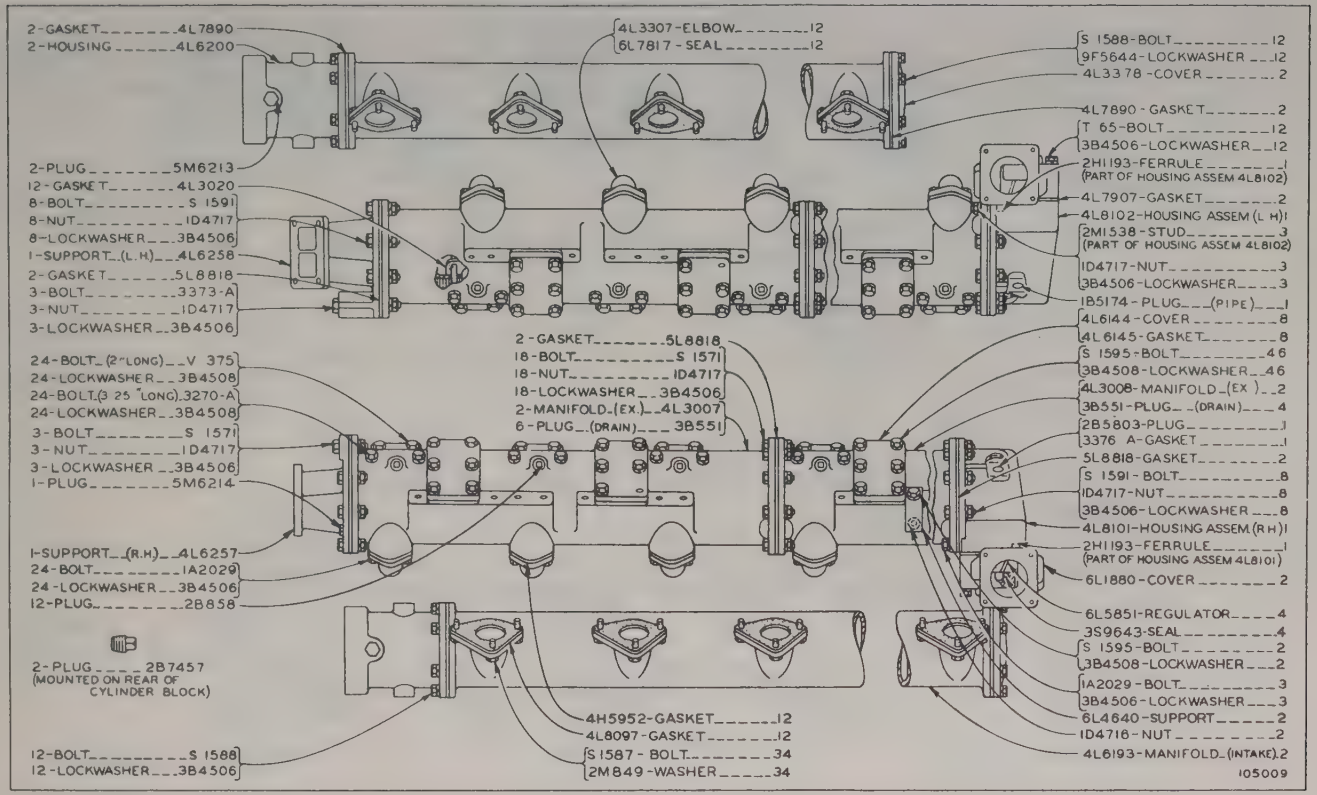


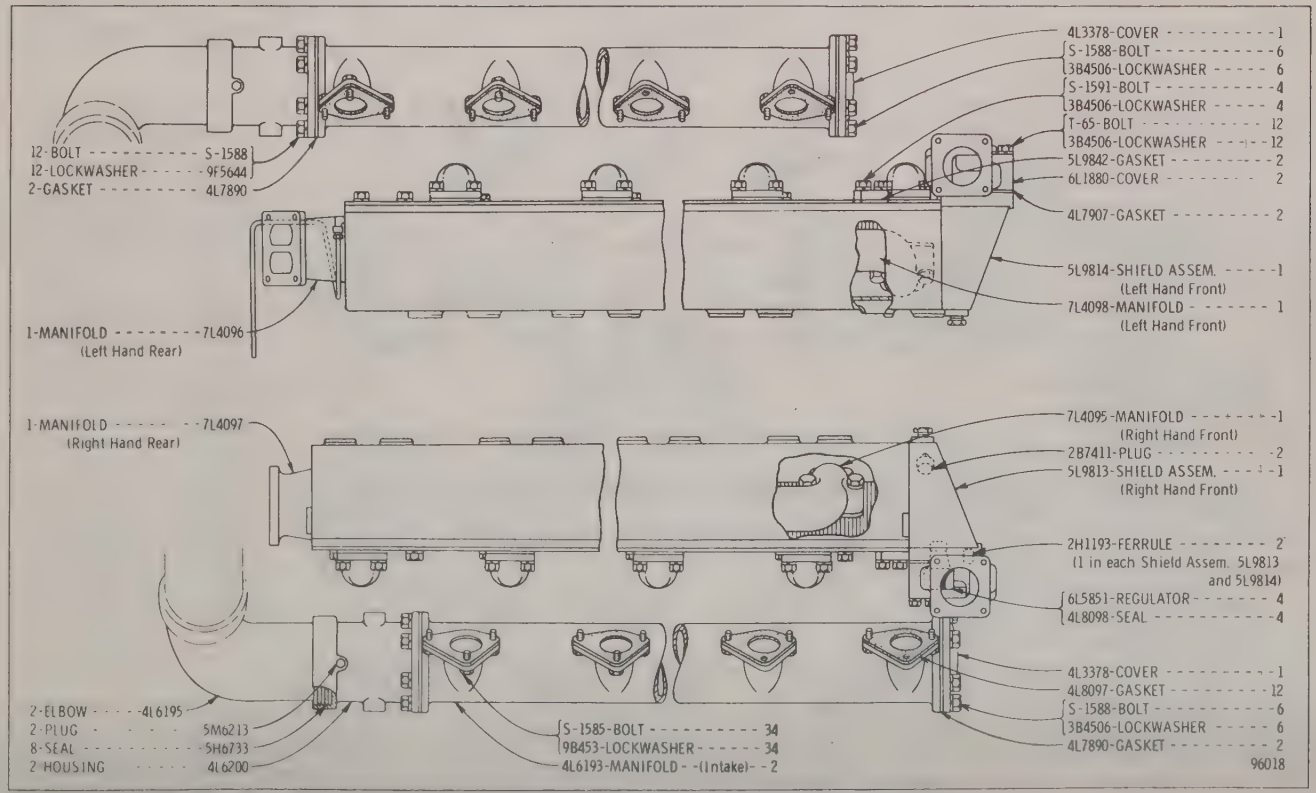

MANIFOLDS--TOP VIEW

SERIAL NO. 66B1152 TO 66B1154, 66B1156 TO 66B1179 AND 66B1193 TO 66B1414 INCLUSIVE

REFER ALSO TO PAGE 142 FOR SPECIAL PARTS

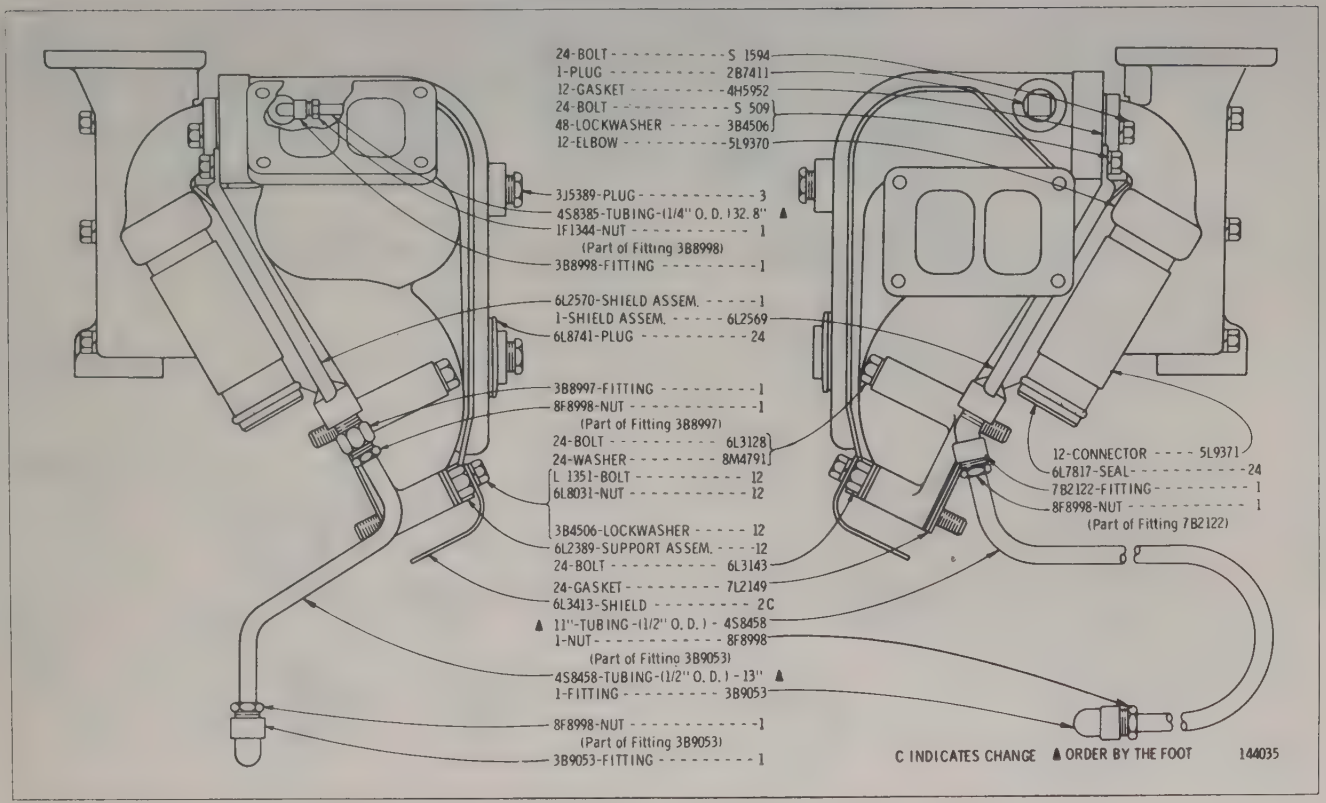
# MANIFOLDS--TOP VIEW
## EFFECTIVE WITH SERIAL NO. 66B1415
REFER ALSO TO PAGE 142 FOR SPECIAL PARTS

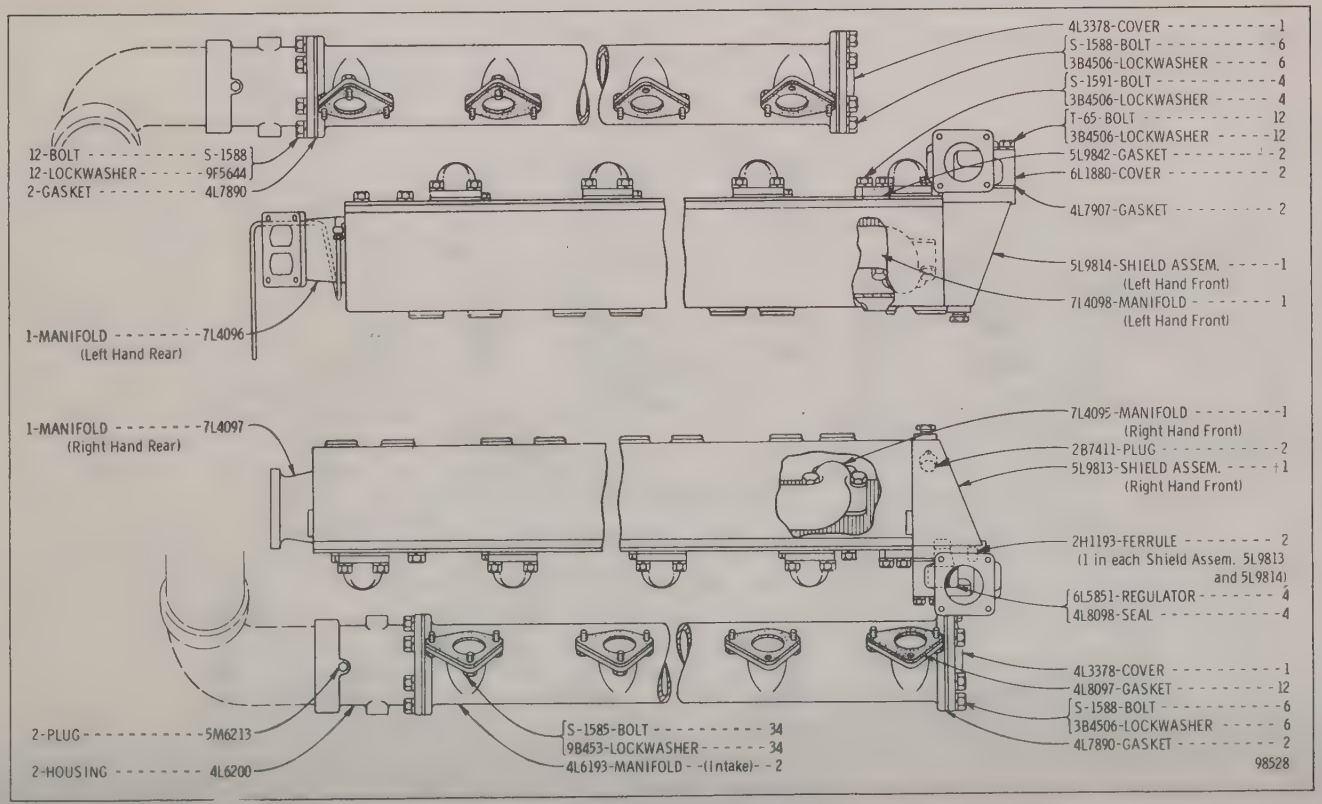





MANIFOLDS--TOP VIEW
SERIAL NO. 7581 TO 7B374 INCLUSIVE
REFER ALSO TO PAGE 142 FOR SPECIAL PARTS

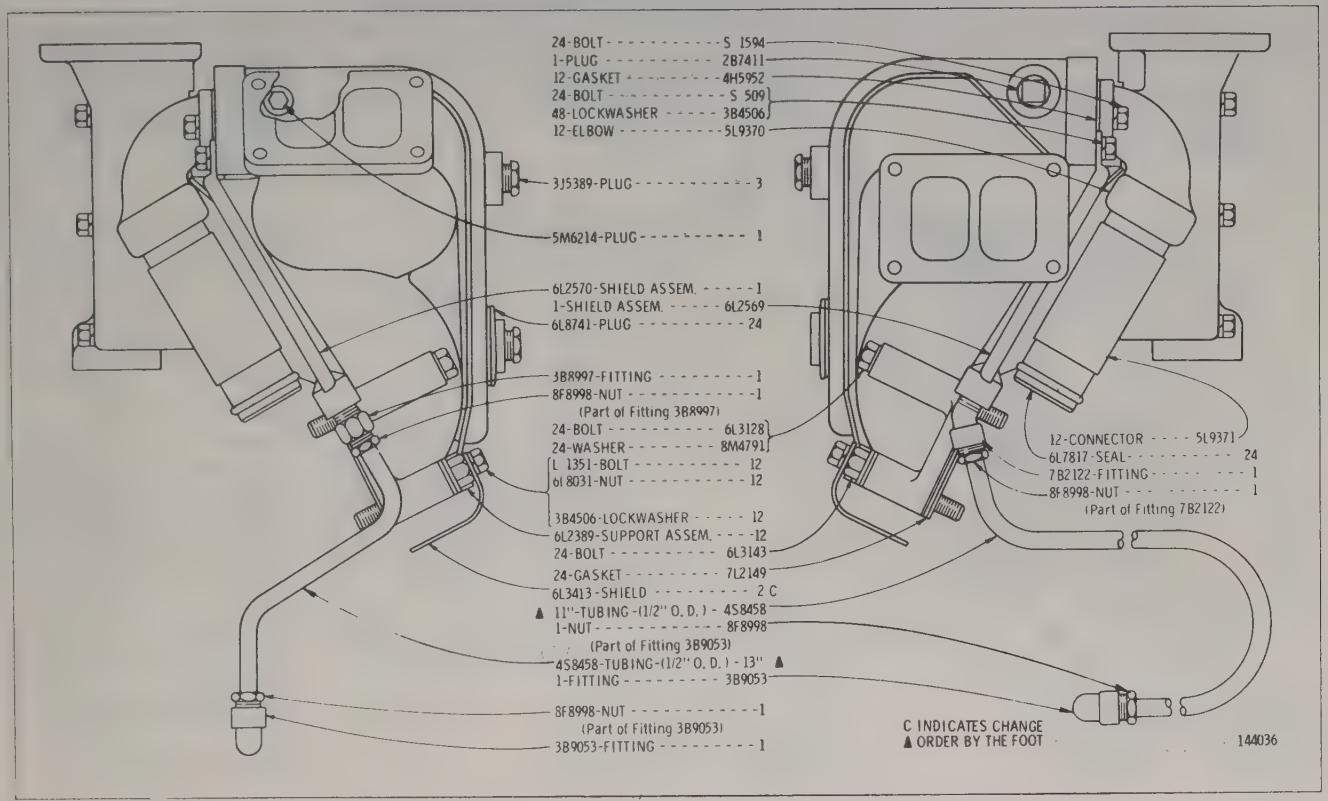
## MANIFOLDS (5L9749 N/S)—Rear View
Serial No. 75B1 to 75B374 inclusive

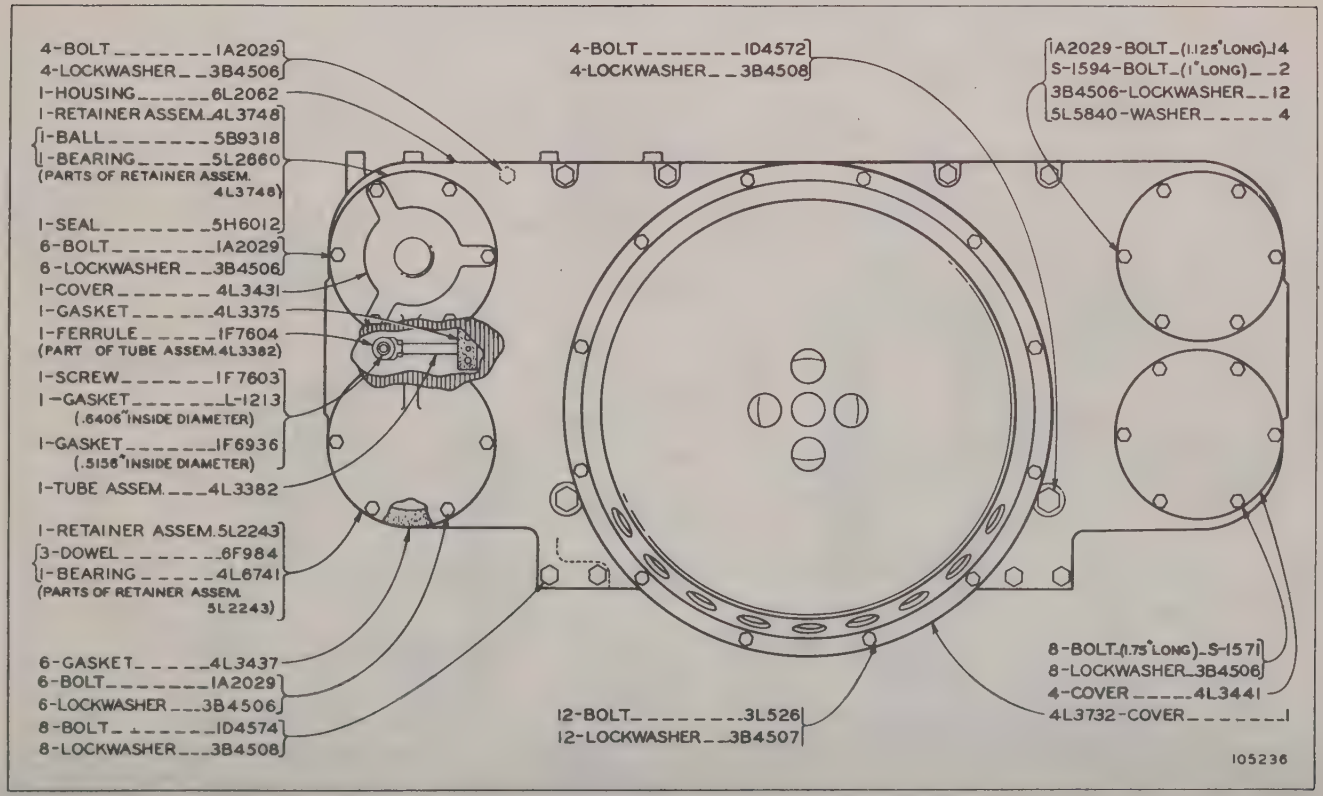





MANIFOLDS--TOP VIEW
EFFECTIVE WITH SERIAL NO. 75B375
REFER ALSO TO PAGE 142 FOR SPECIAL PARTS

## MANIFOLDS (5L9749 N/S)—Rear View
Serial No. 75B375—Up

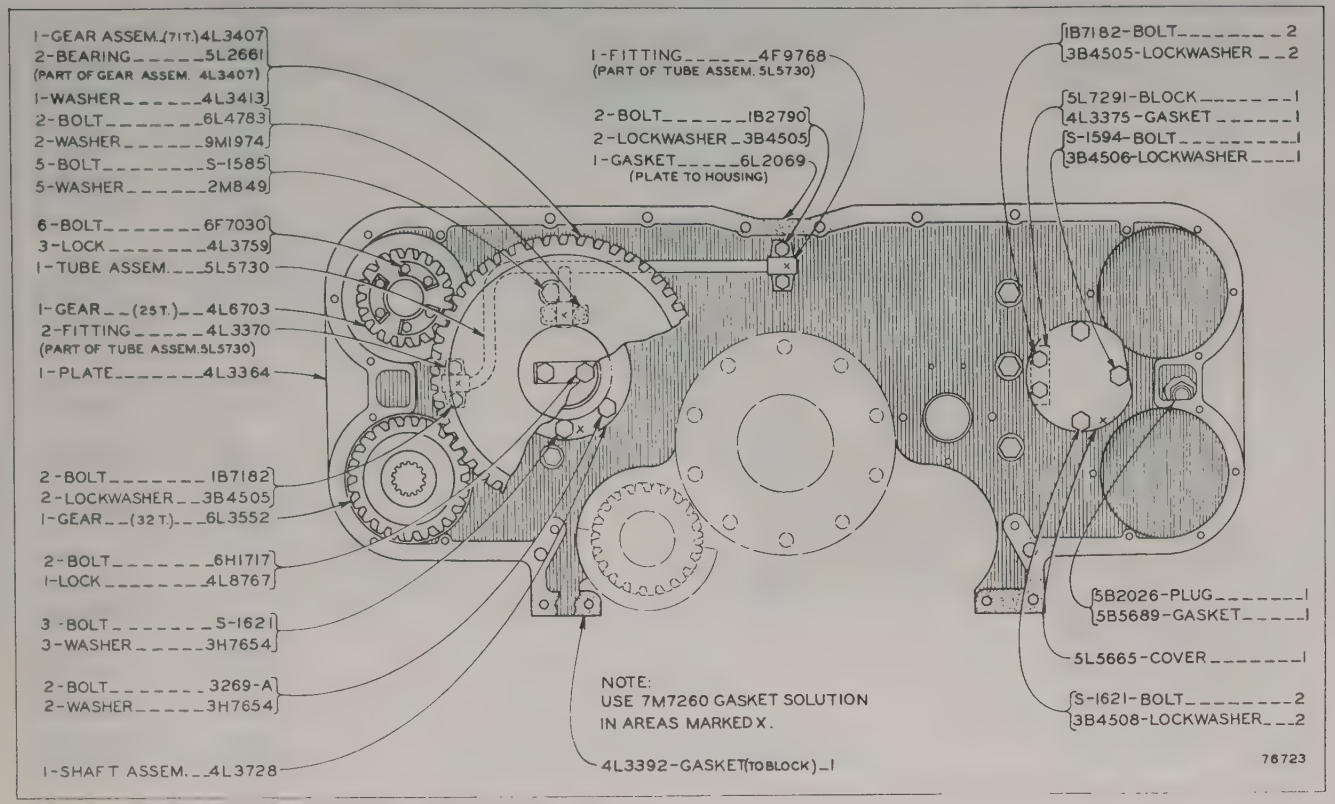


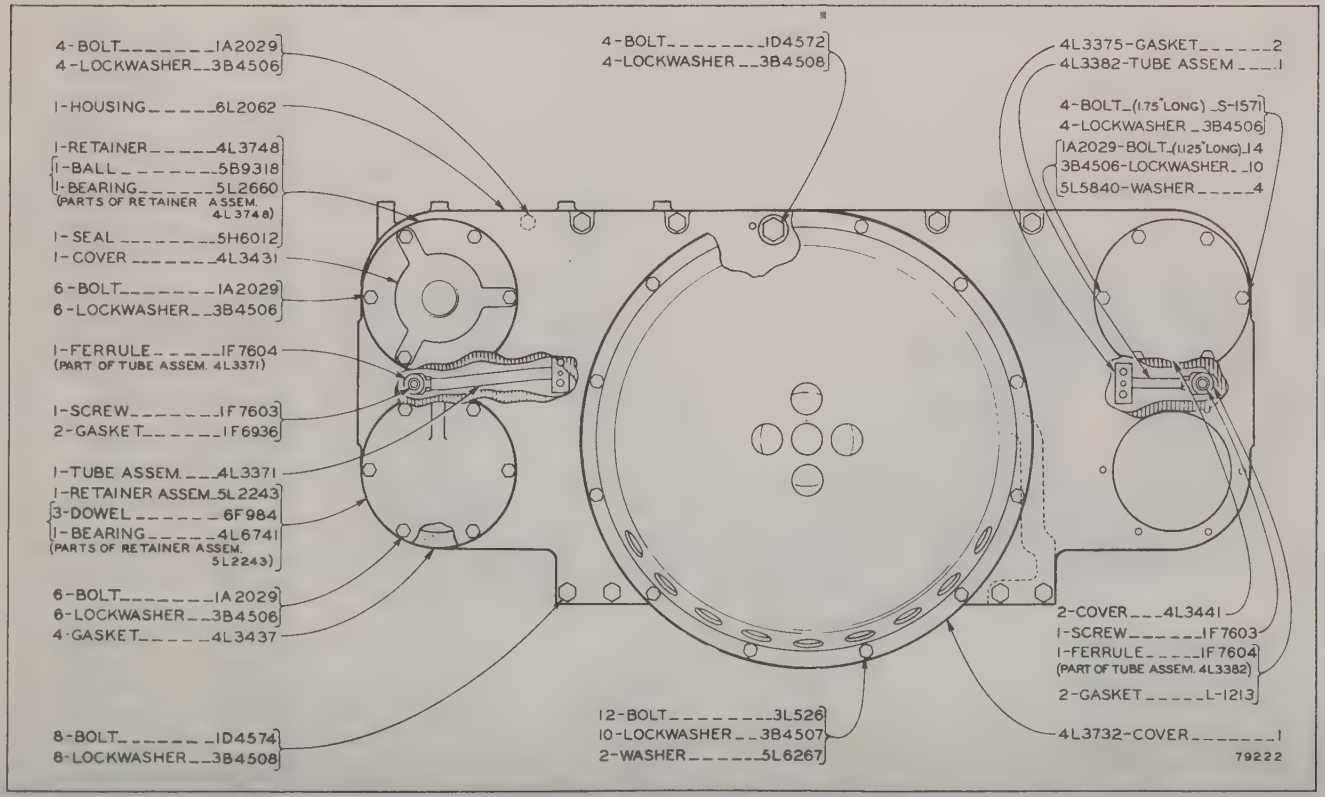



FRONT ACCESSORY DRIVE—S.A.E. Standard Engine Rotation—Part One
PART OF 4L1127 AND 6L4984 TURBOCHARGED ENGINE ARRANGEMENTS
Refer also to Pages 160 and 161 for special parts

## FRONT ACCESSORY DRIVE—S.A.E. Standard Engine Rotation—Part Two

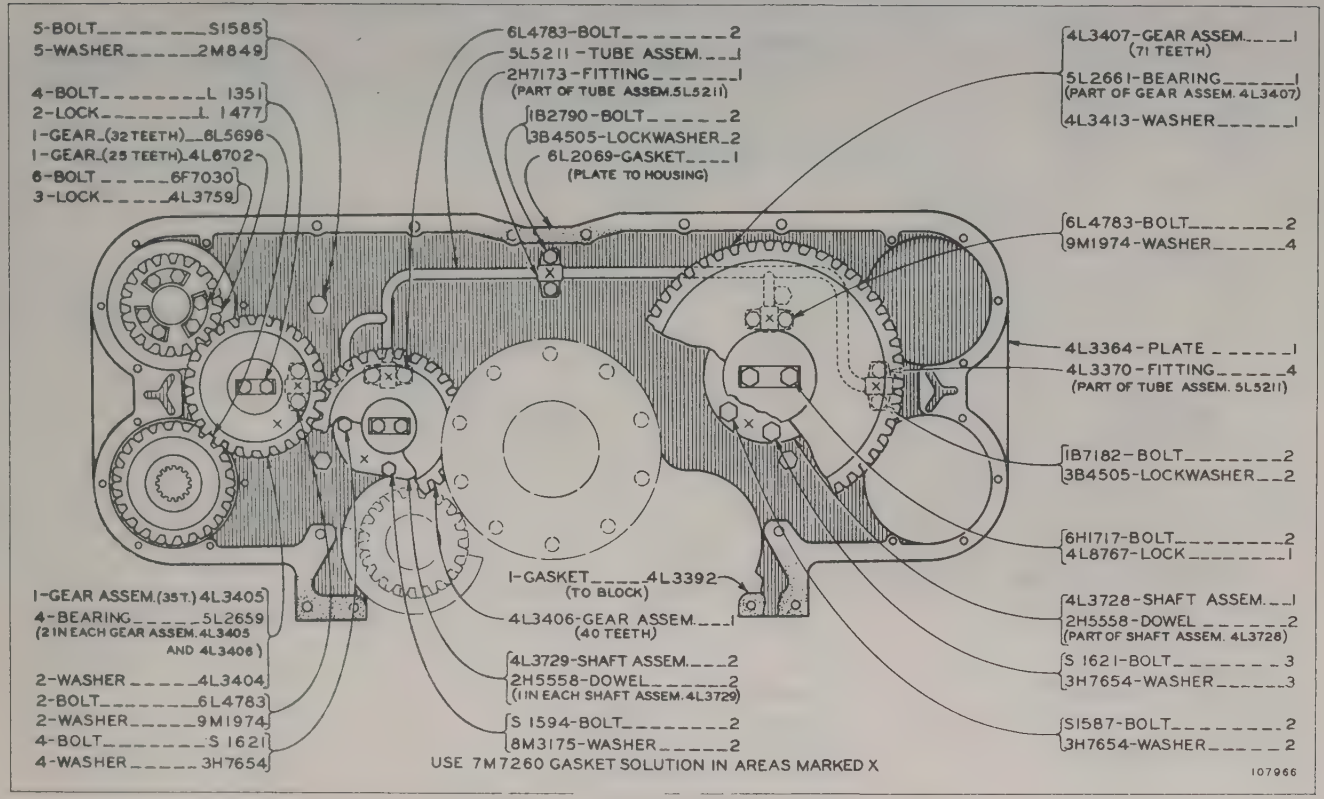
PART OF 4L1127 AND 6L4984 TURBOCHARGED ENGINE ARRANGEMENTS

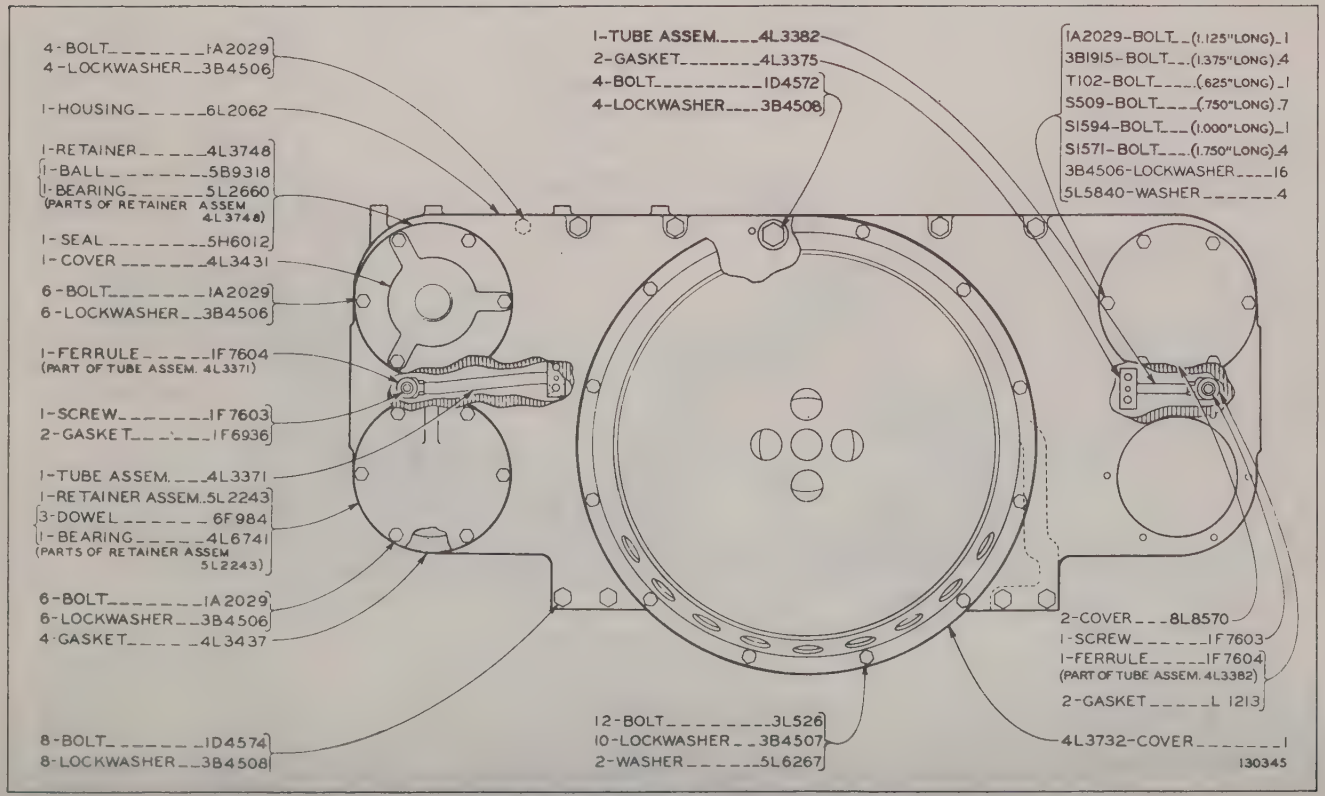





**6L7969 FRONT ACCESSORY DRIVE GROUP—S.A.E. Opposite Standard Engine Rotation—Part 1—Type 1**
**Part of 5L2664 Turbocharged Engine Arrangement**
**Refer also to Pages 126A and 161 for special parts**

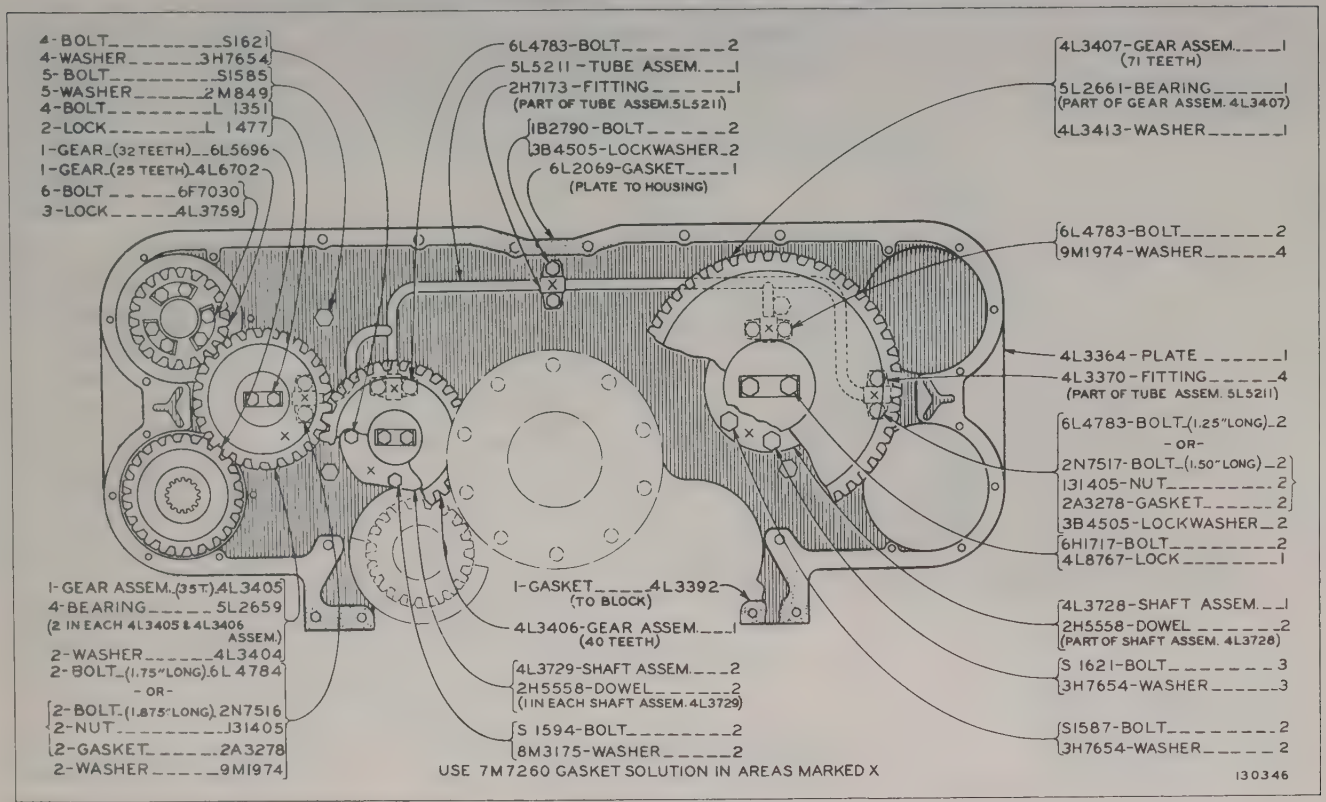
6L7969 FRONT ACCESSORY DRIVE GROUP—S.A.E. Opposite Standard Engine Rotation—Part 2—Type 1
Part of 5L2664 Turbocharged Engine Arrangement

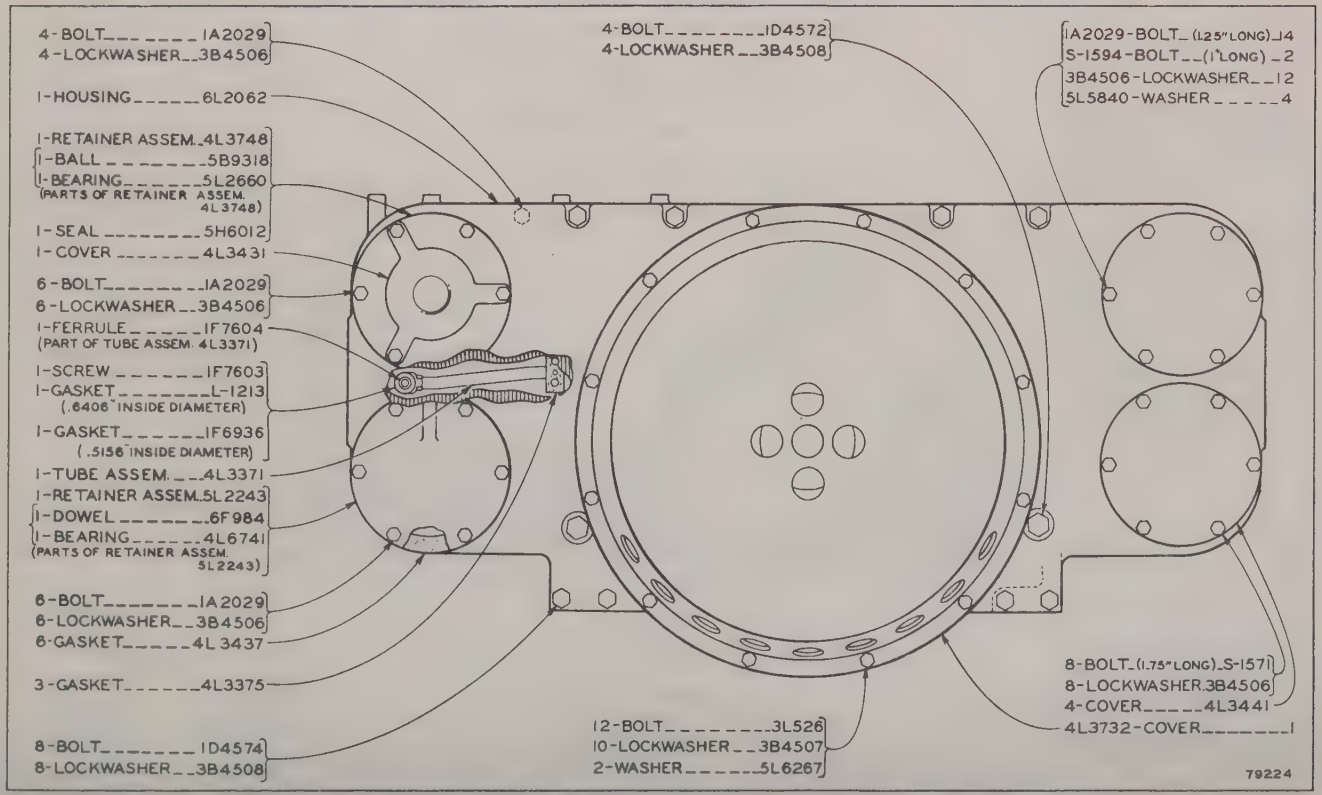





6L7969 FRONT ACCESSORY DRIVE GROUP—S.A.E. Opposite Standard Engine Rotation—Part 1—Type 2
Part of 5L2664 Turbocharged Engine Arrangement
Refer also to Pages 126A and 161 for special parts

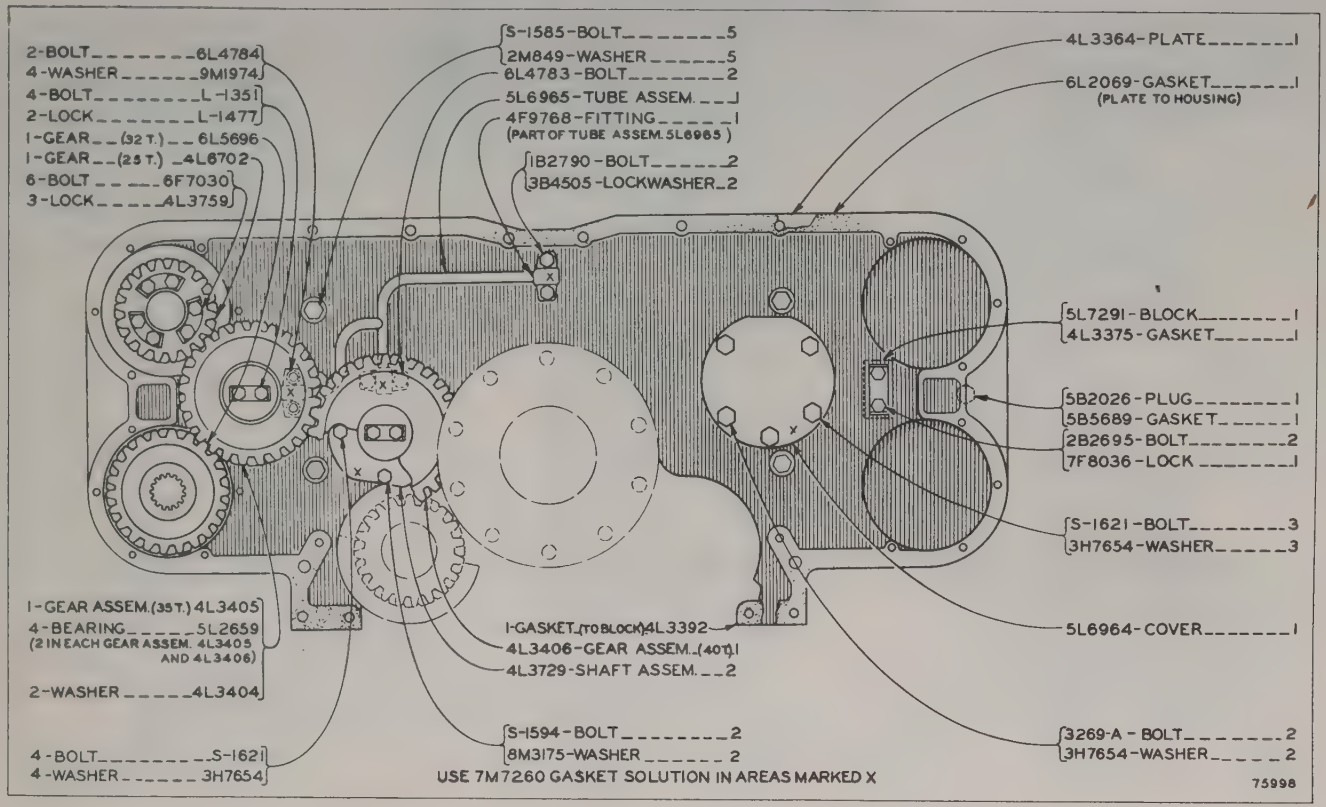
## 6L7969 FRONT ACCESSORY DRIVE GROUP—S.A.E. Opposite Standard Engine Rotation—Part 2—Type 2
Part of 5L2664 Turbocharged Engine Arrangement

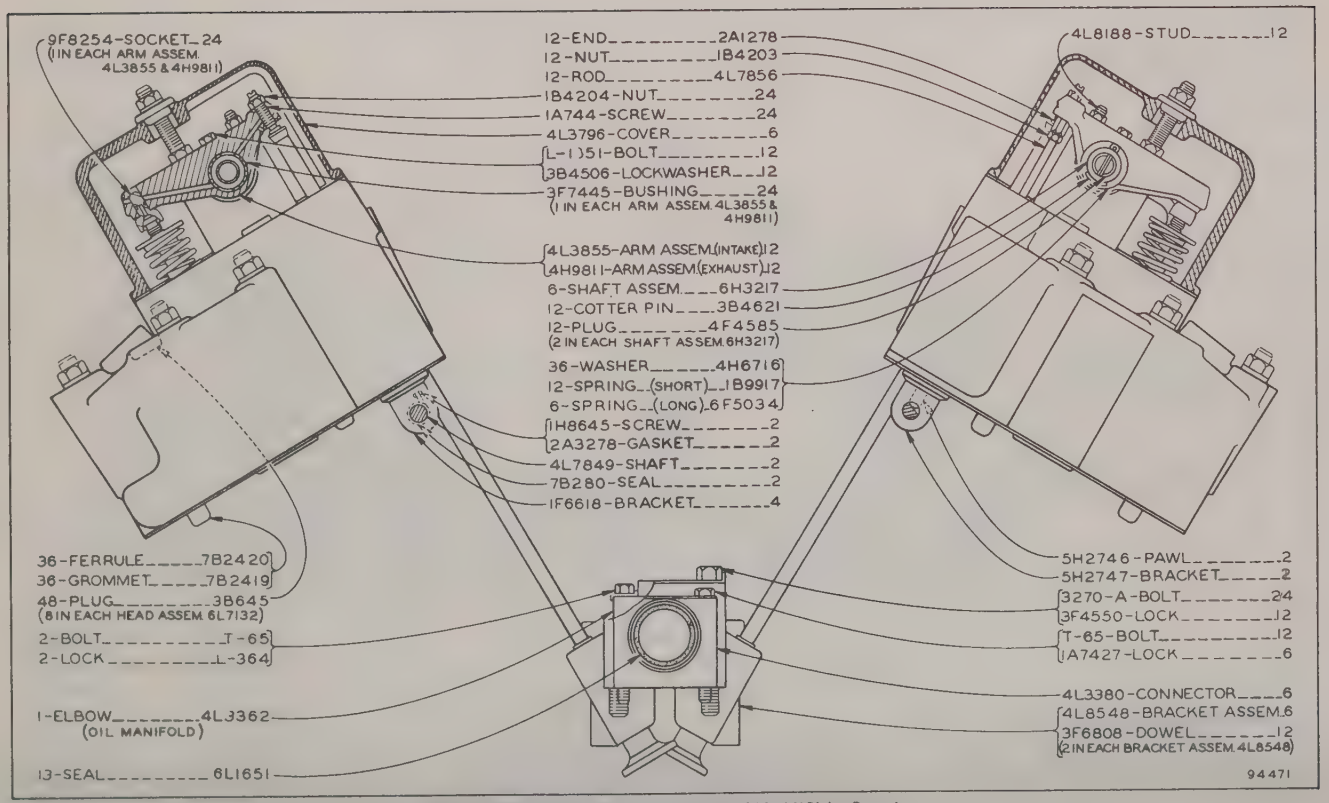





6L7970 FRONT ACCESSORY DRIVE GROUP—S.A.E. Opposite Standard Engine Rotation—Part 1
Part of 5L7149 Turbocharged Engine Arrangement
Refer to Pages 126A and 161 for special parts

## 6L7970 FRONT ACCESSORY DRIVE GROUP—S.A.E. Opposite Standard Engine Rotation—Part 2
Part of 5L7149 Turbocharged Engine Arrangement





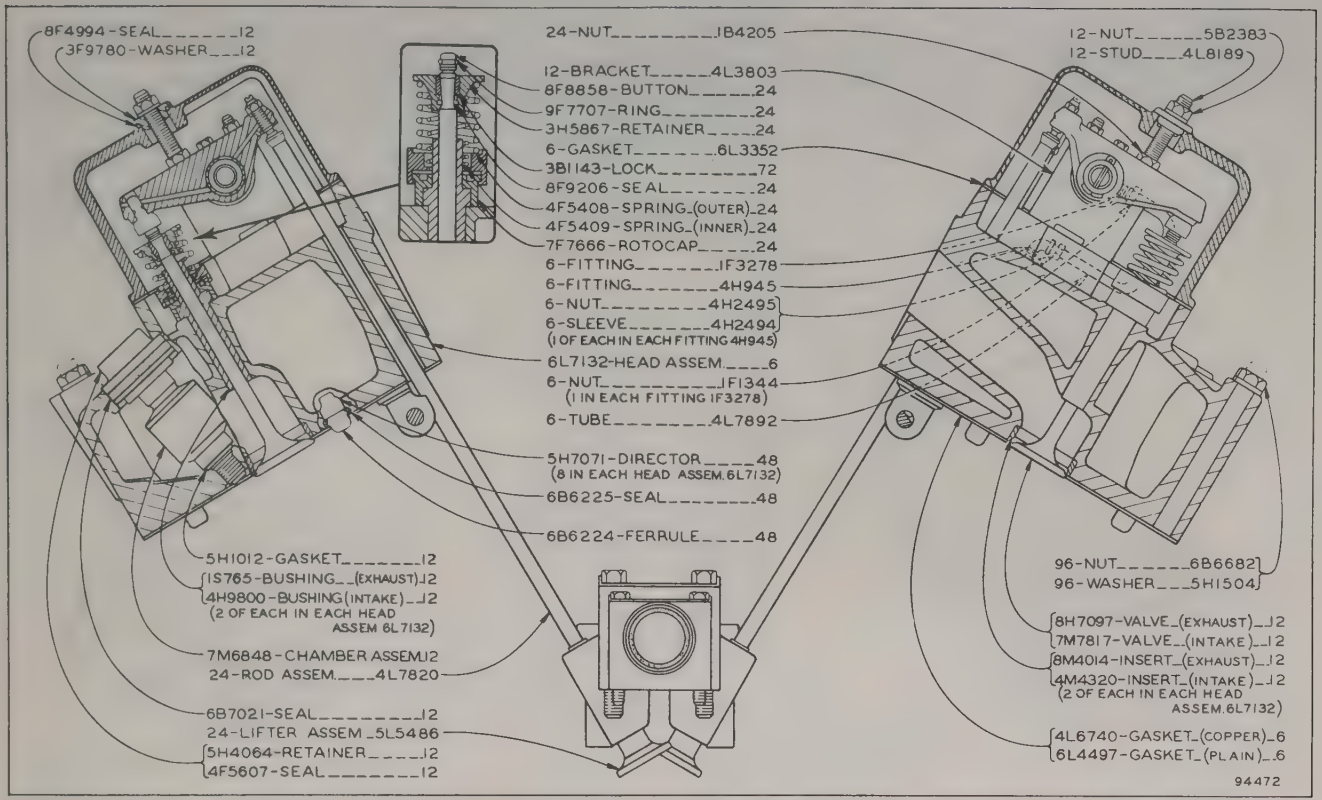

**CYLINDER HEAD AND VALVE MECHANISM—Part I**

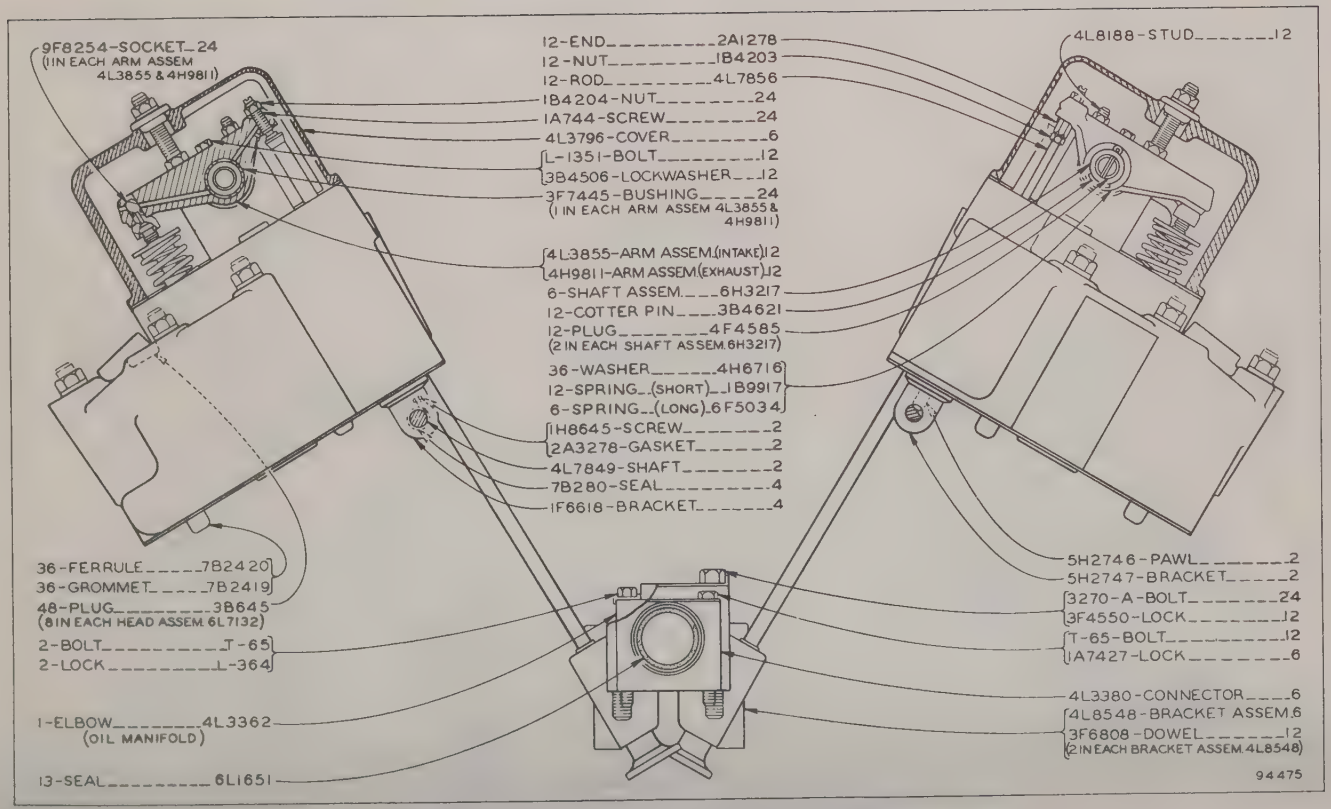
Serial No. 66B700 to 66B969 inclusive and 75B1 to 75B168 inclusive

## CYLINDER HEAD AND VALVE MECHANISM—Part 2

Serial No. 66B700 to 66B969 inclusive and 75B1 to 75B168 inclusive

Refer also to Page 110 for special parts





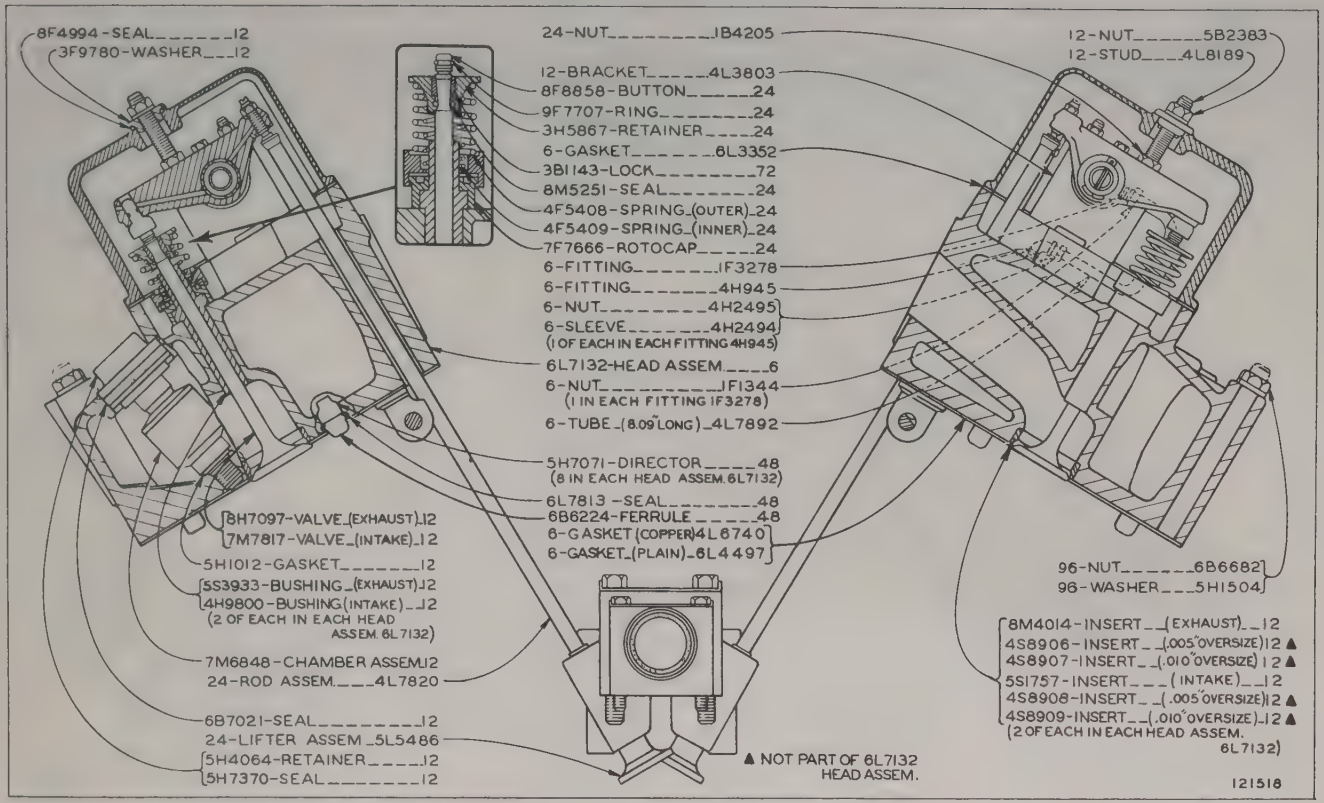

**CYLINDER HEAD AND VALVE MECHANISM—Part 1**

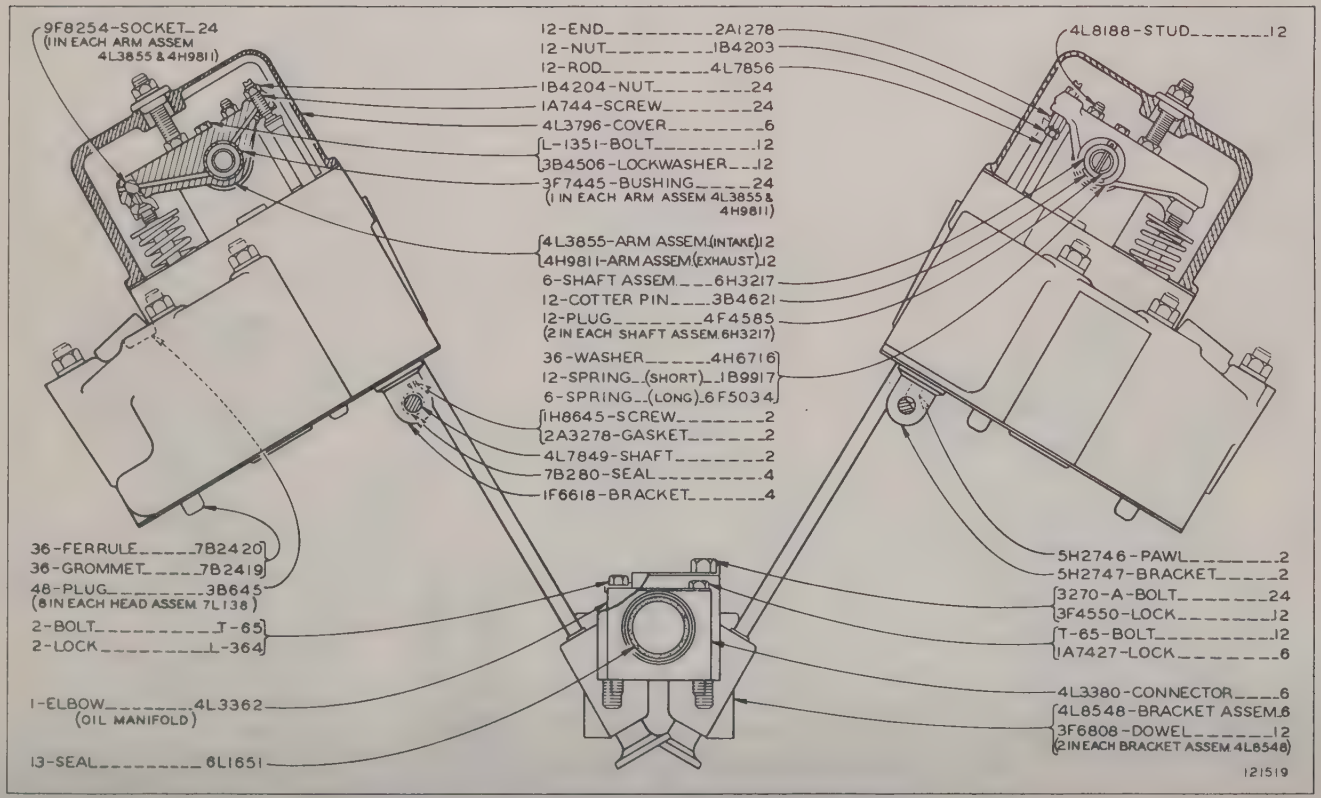
Serial No. 66B970 to 66B1683 inclusive and 75B169 to 75B657 inclusive

## CYLINDER HEAD AND VALVE MECHANISM—Part 2

Serial No. 66B970 to 66B1683 inclusive and 75B169 to 75B657 inclusive

See Page 42B for Gasket Kits



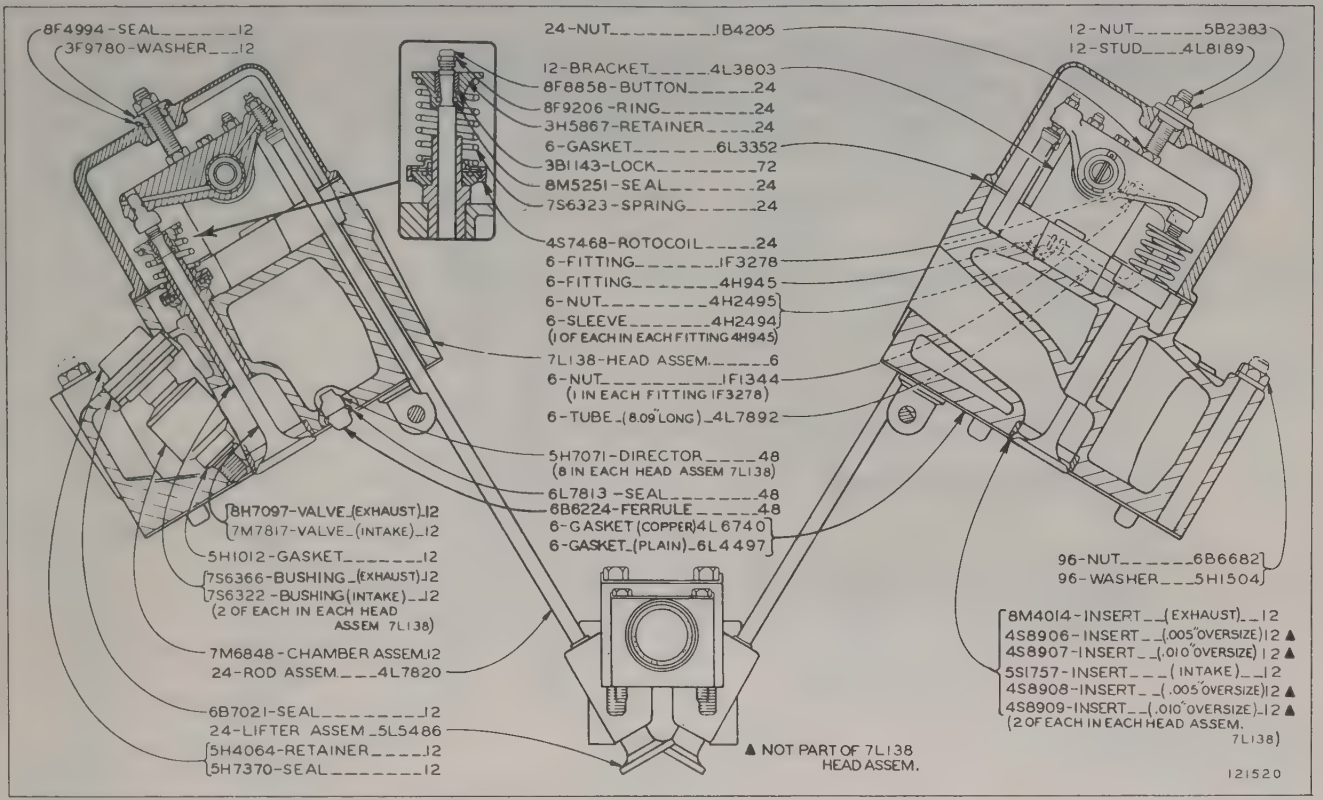


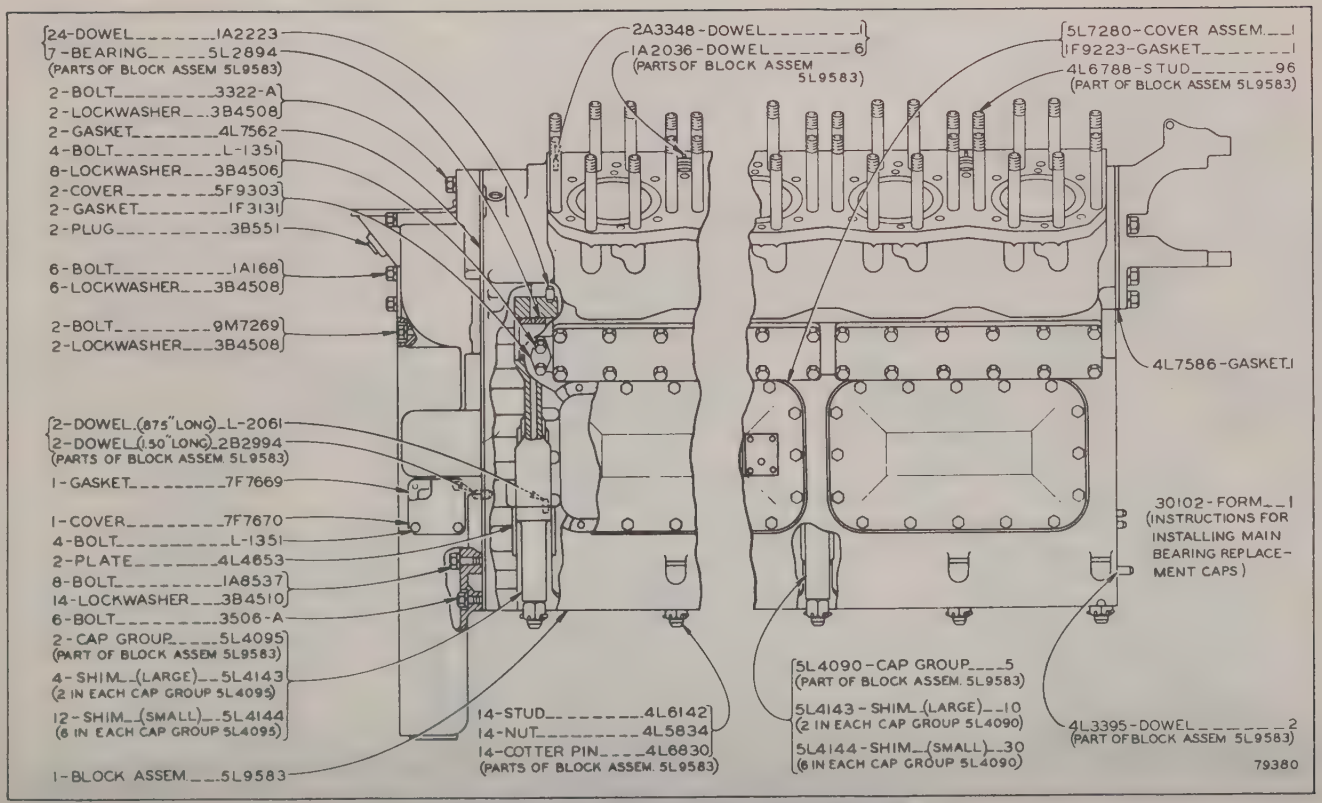

CYLINDER HEAD AND VALVE MECHANISM—Part 1
Effective with Serial No. 66B1684-Up and 75B658-Up

## CYLINDER HEAD AND VALVE MECHANISM—Part 2

**Effective with Serial No. 66B1684—Up and 75B658—Up**

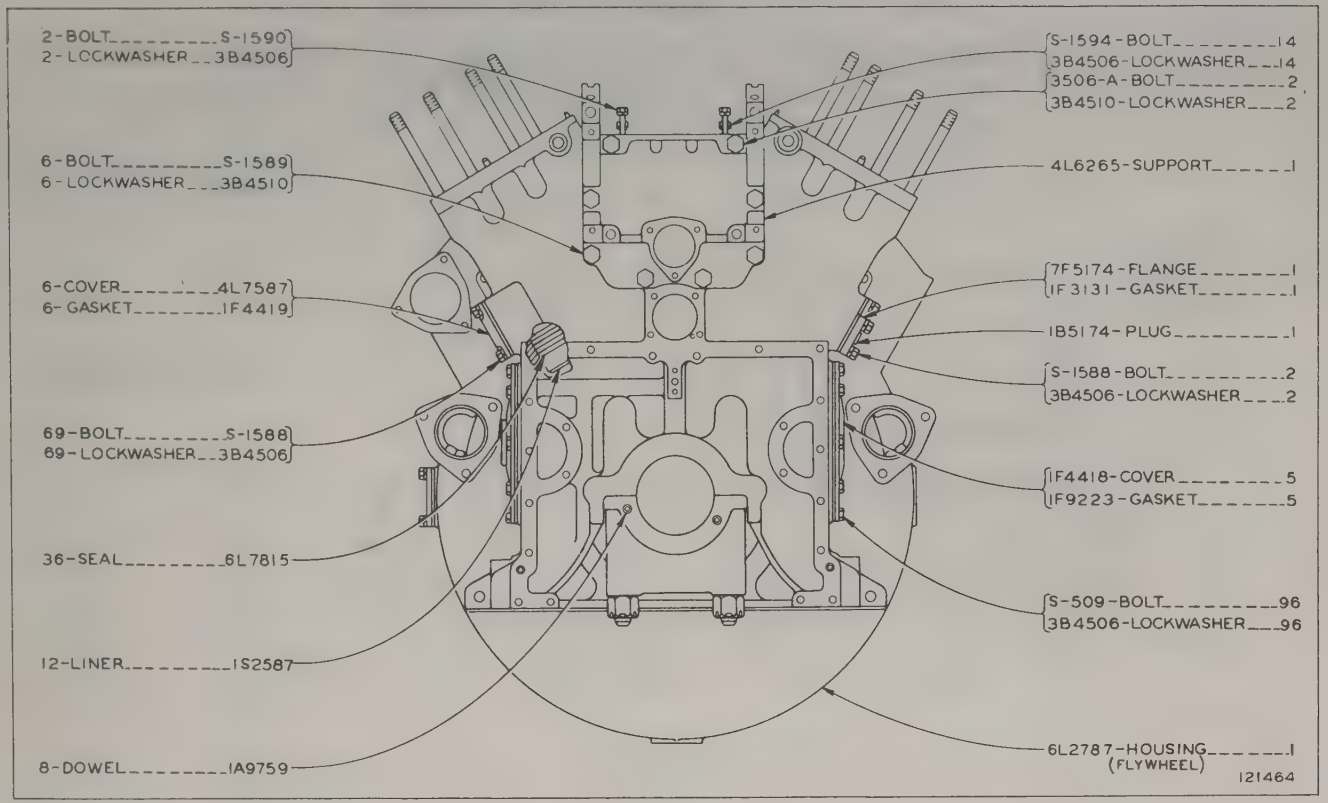
See Page 42B for Gasket Kits

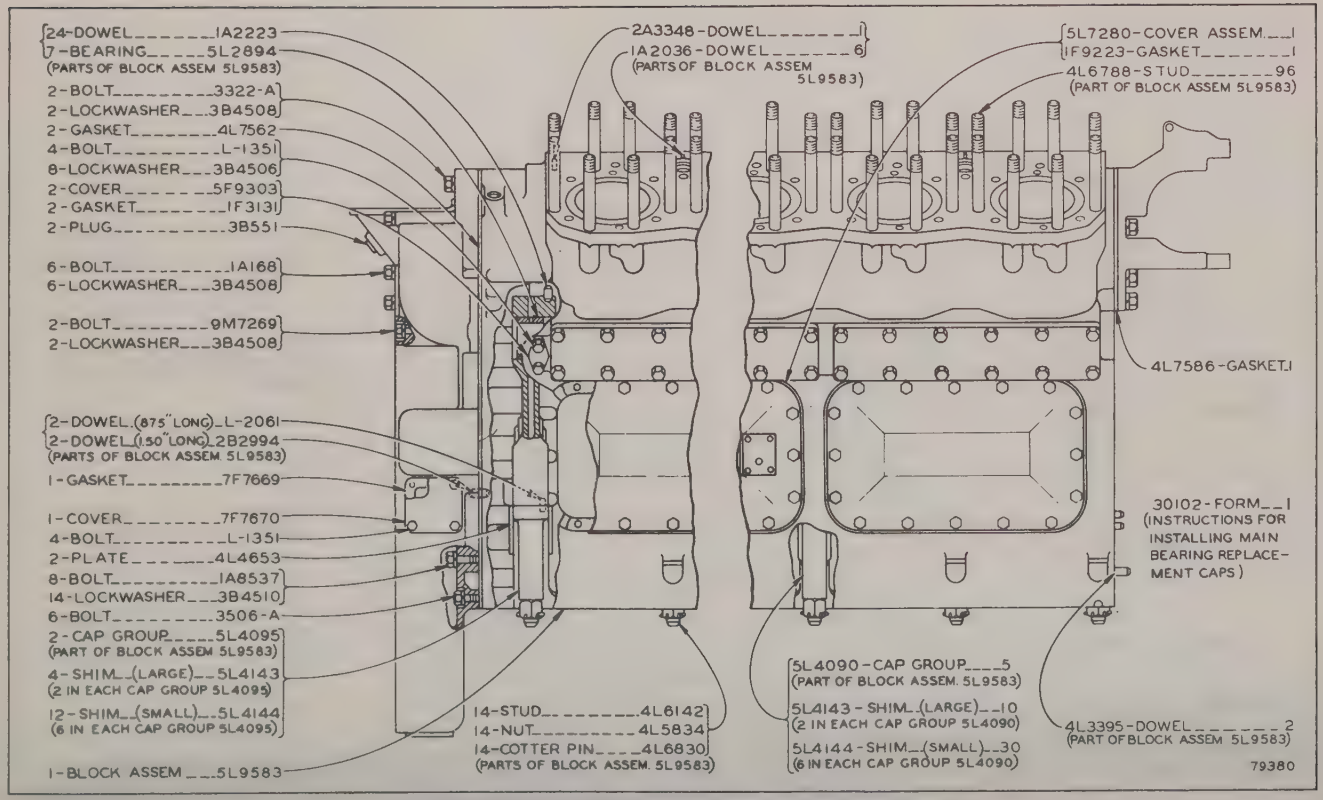





**CYLINDER BLOCK AND COVERS (4L1135 N/S)—Side View**
**Serial No. 66B700 to 66B1820 inclusive and 75B1 to 75B912 inclusive**

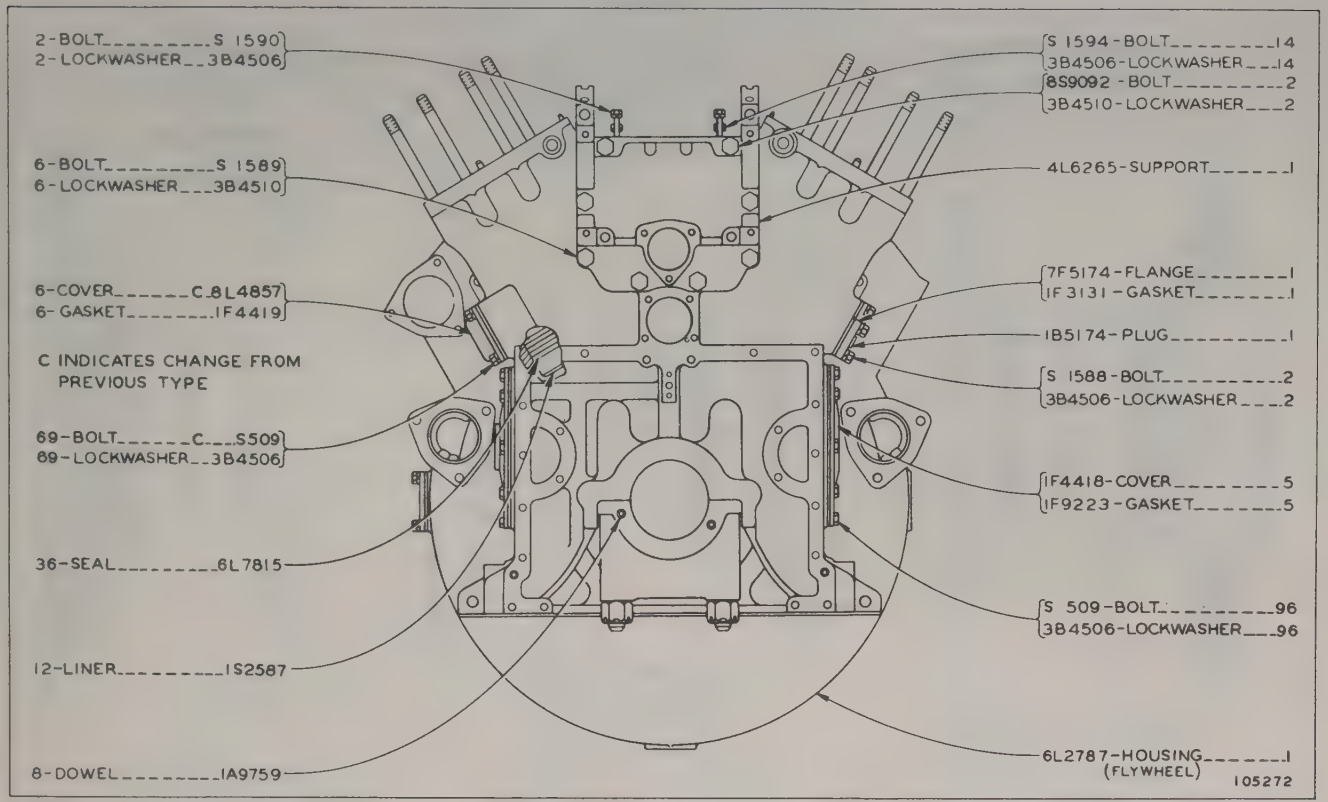
## CYLINDER BLOCK AND COVERS (4L1135 N/S)—Front View
Serial No. 66B700 to 66B1820 inclusive and 75B1 to 75B912 inclusive

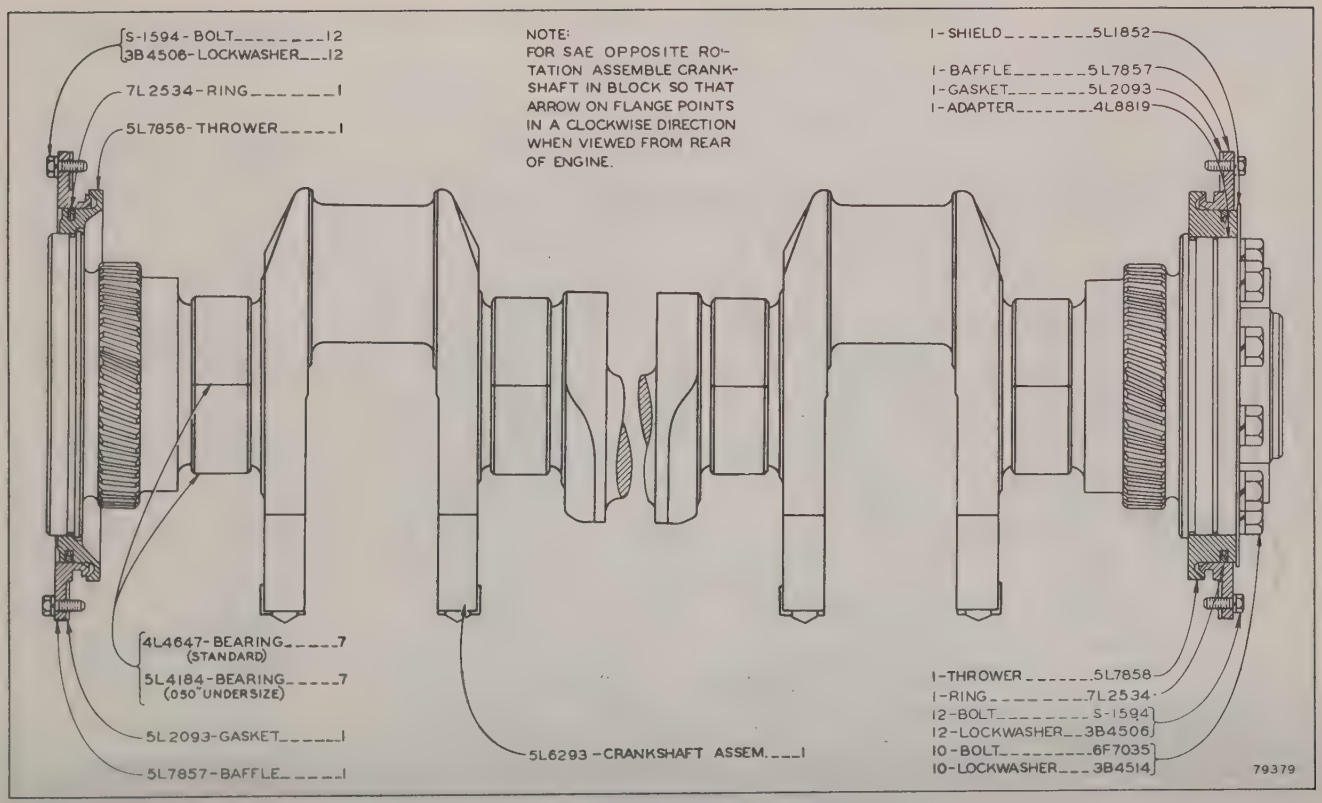





CYLINDER BLOCK AND COVERS (4L1135 N/S)—Side View
Serial No. 66B1821—Up and 75B913—Up

## CYLINDER BLOCK AND COVERS (4L1135 N/S)—Front View
Serial No. 66B1821—Up and 75B913—Up



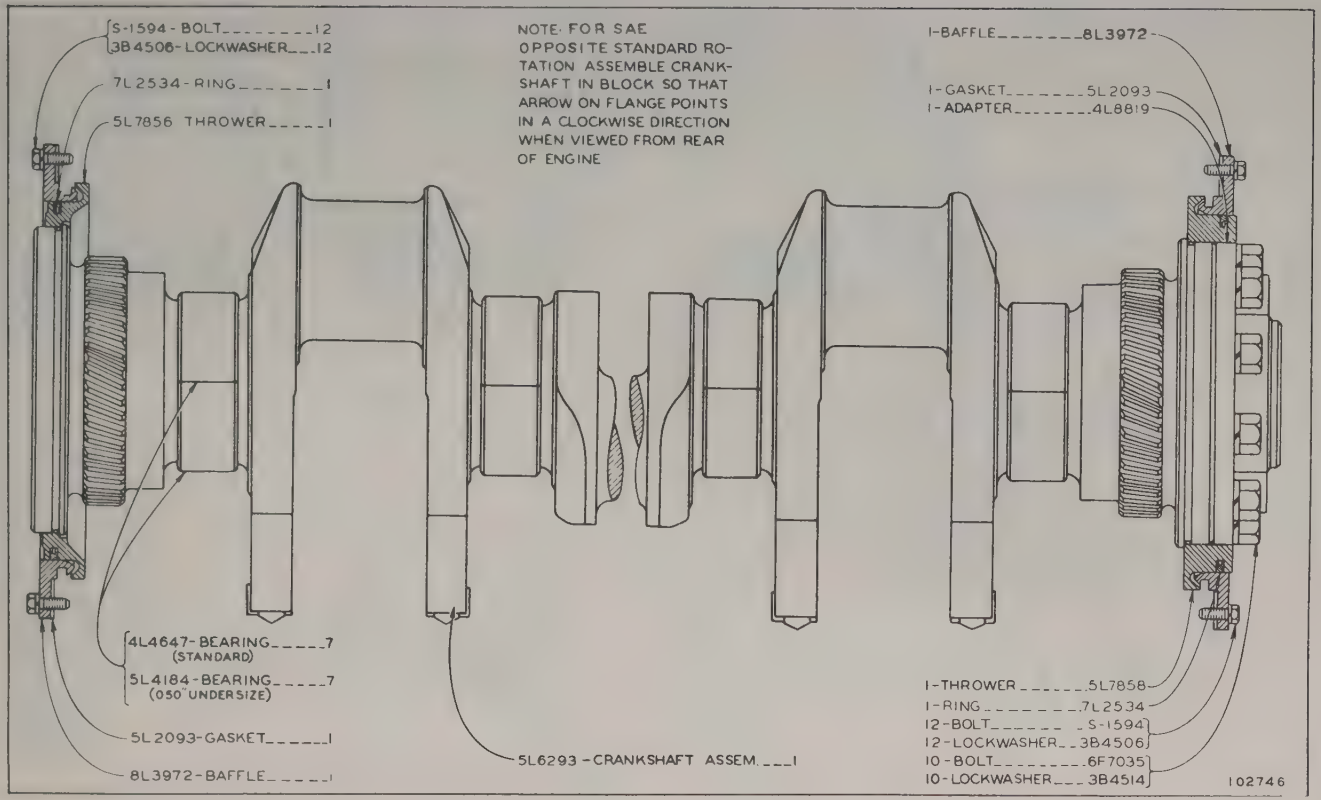



**CRANKSHAFT**

Serial No. 66B700 to 66B1299 inclusive and 75B1 to 75B313 inclusive

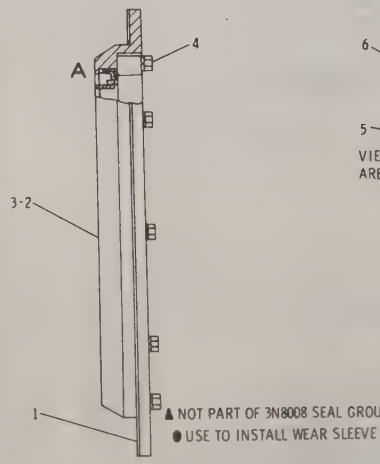
## CRANKSHAFT

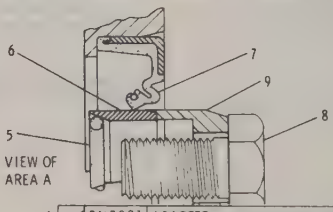
Effective with Serial No. 66B1300—Up and 75B314—Up



| | |
|---|---|
| 9M8633 | DIESEL ENGINE BASIC<br>SERIAL NO. 66B700 TO 66B969 & 75B1-UP |
| 9M8634 | DIESEL ENGINE SUPPLEMENTARY<br>SERIAL NO. 66B700 TO 66B969 & 75B1-UP |
| 1P1575 | COMPLETE ENGINE<br>SERIAL NO. 66B970-UP |
| 3S1723 | WATER PUMP |
| 7S2719 | VALVE GRINDING (FOR ONE HEAD)<br>SERIAL NO. 66B700 TO 66B969 & 75B1-UP |
| 1S616 | VALVE GRINDING (FOR BOTH HEADS)<br>SERIAL NO. 66B970-UP |

GASKET KITS



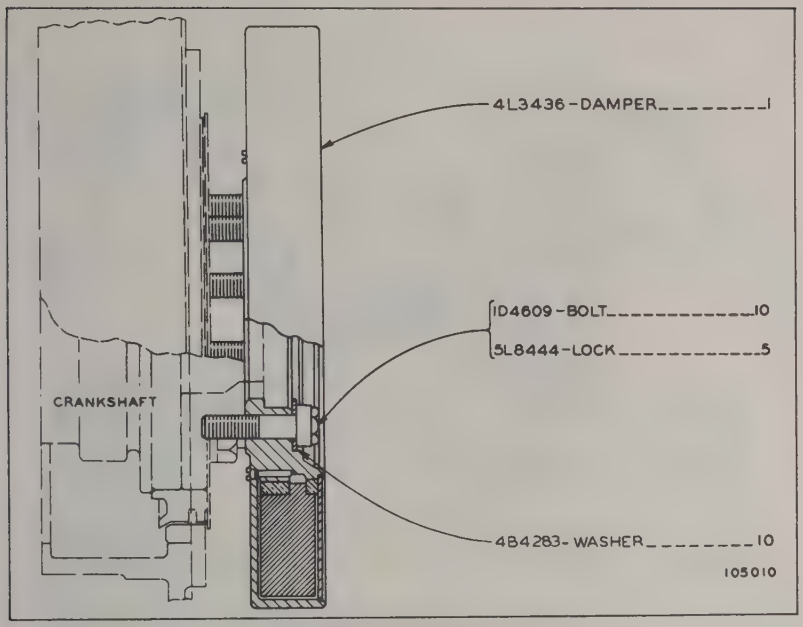




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5L2093 | GASKET | 1 |
| 2 | 3N3170 | ADAPTER | 1 |

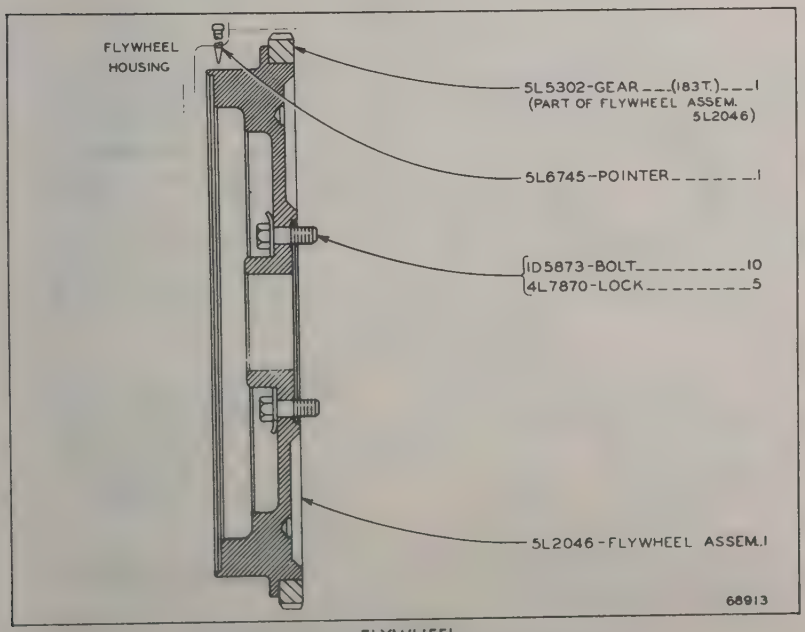
| | REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| ▲ | 3 | 3N7821 | ADAPTER (Use with 5L1857 Adapter) | 1 |
| ▲ | 3 | 3N7822 | ADAPTER (Use with 4L8819 Adapter) | 1 |
| ▲ | 3 | 3N7823 | ADAPTER (Use with 7L2571 Adapter) | 1 |
| | 4 | 1A9579 | BOLT | 8 |
| | 4 | 3B4505 | LOCKWASHER | 8 |
| | 4 | 3N3333 | SPACER | 8 |
| | 5 | 7D1979 | SEAL | 1 |
| | 6 | 3N7311 | SLEEVE | 1 |
| | 7 | 3N3166 | SEAL | 1 |
| ● | 8 | 8S4754 | BOLT---.875 in. (2.22 cm) diameter | 4 |
| ● | 8 | 8S4755 | BOLT------1 in. (2.54 cm) diameter (Use as Required) | 4 |
| ● | 9 | 5P3022 | INSTALLER | 1 |
| | | | THE FOLLOWING REPAIR KIT IS AVAILABLE | |
| | | 3N8049 | LOCTITE KIT--------(service) | 1 |
| | | GMG02487 | FORM | 1 |
| | | | (Installing Crankshaft Seal Conversion Groups) | |

152603

3N8008 CRANKSHAFT CONVERSION SEAL GROUP
FIELD INSTALLATION

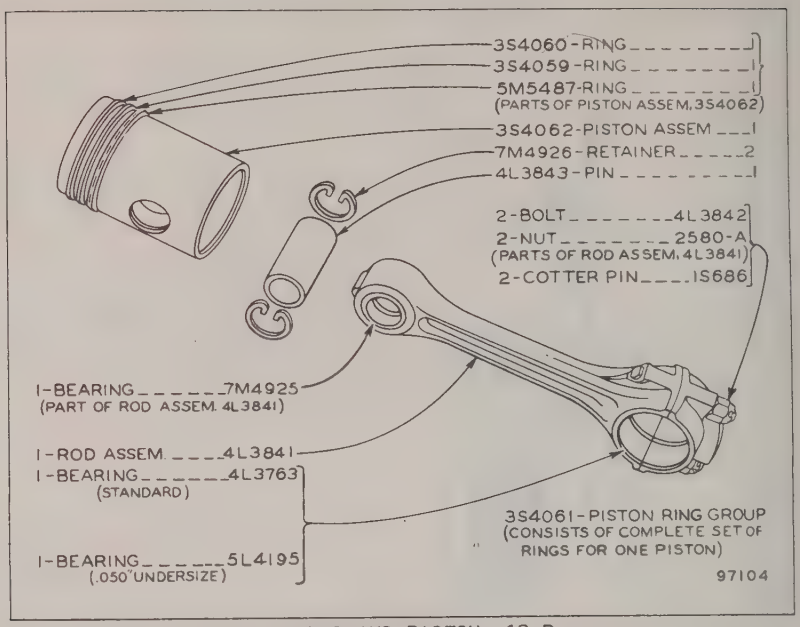



VIBRATION DAMPER

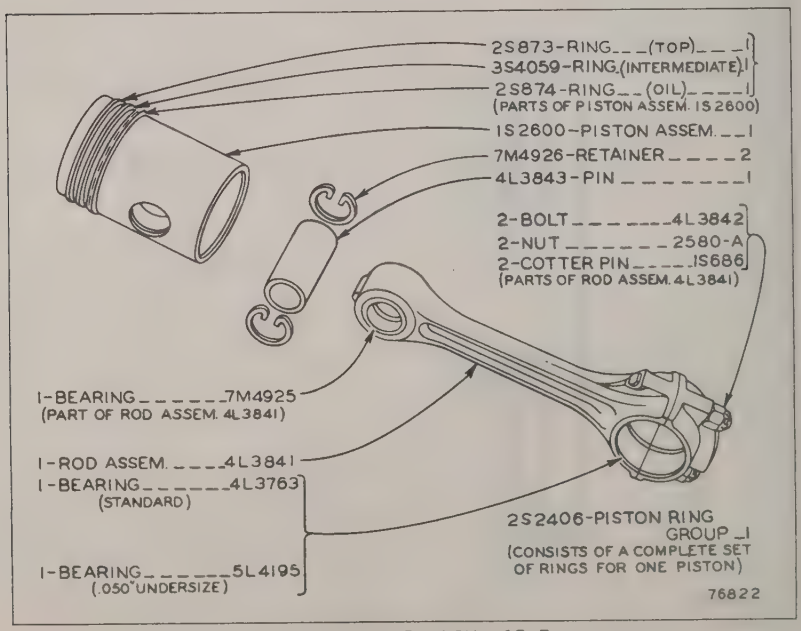



FLYWHEEL

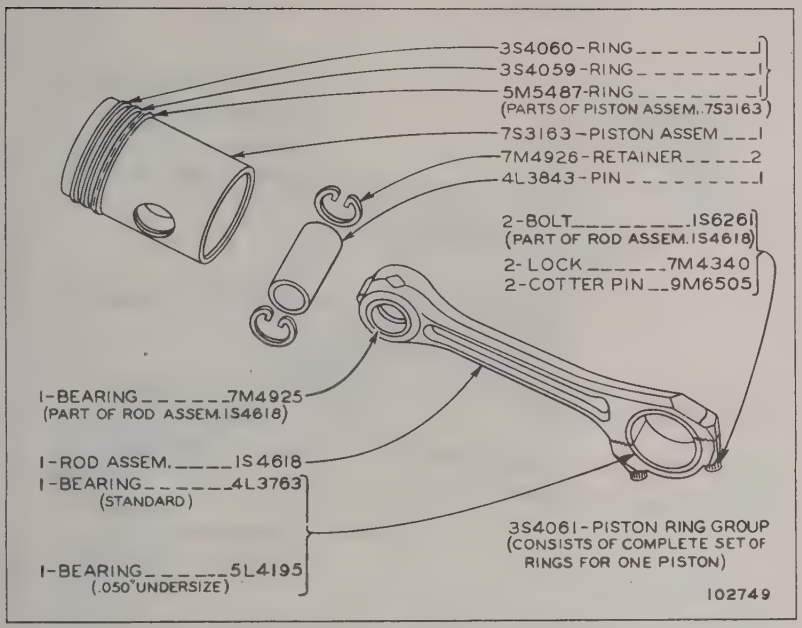
Refer also to Page 86 for special parts



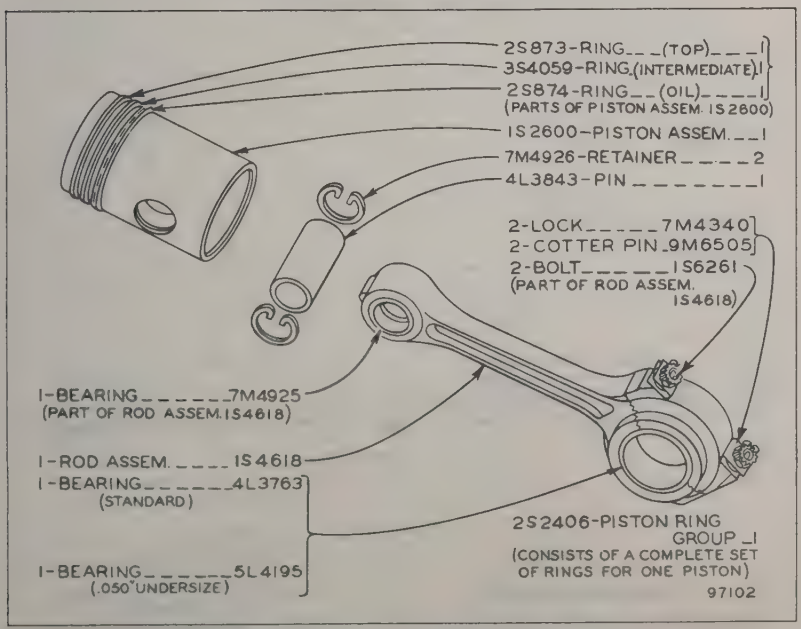

CONNECTING ROD AND PISTON--12 REQUIRED
SERIAL NO. 66B700 TO 66B1290 INCLUSIVE



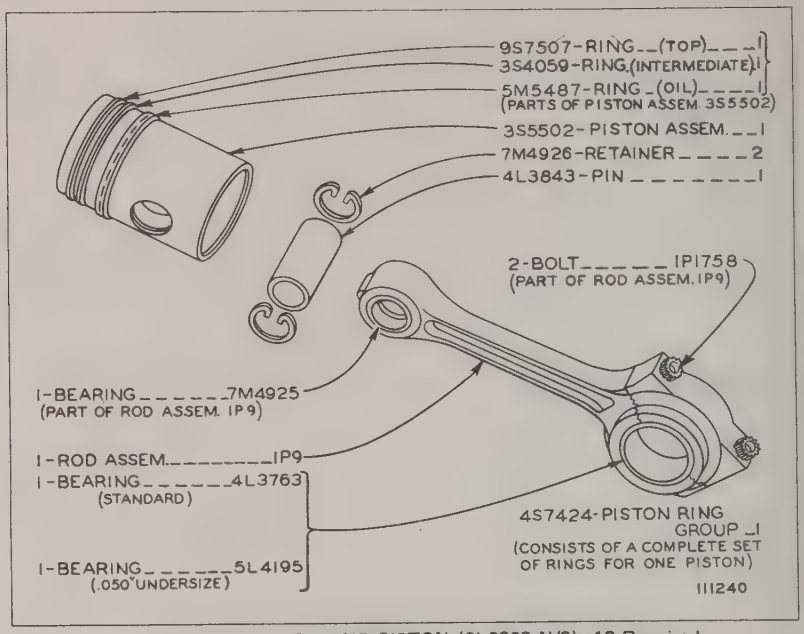

CONNECTING ROD AND PISTON--12 REQUIRED
SERIAL NO. 75B1 TO 75B302 INCLUSIVE



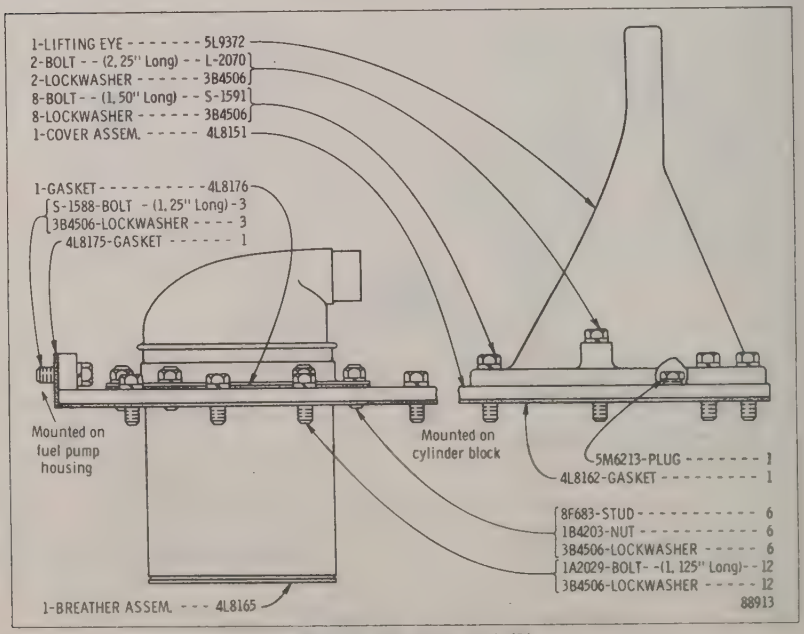

CONNECTING ROD AND PISTON—12 Required
Effective with Serial No. 66B1291




CONNECTING ROD AND PISTON—12 Required
Serial No. 75B303 to 386, 388 to 390, 392 to 399, 403 to 411, 413, 417 to 419 and 75B422 inclusive




CONNECTING ROD AND PISTON (6L2868 N/S)—12 Required
Serial No. 75B387, 391, 400 to 402, 412, 414 to 416, 420, 421 and 75B423—Up




BREATHER (6L3042 N/S)
Serial No. 75B1 to 75B95 inclusive. PART OF 6L4984 S.A.E. STANDARD AND 5L7140 S.A.E. OPPOSITE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS

FOR USE WITH .025 REGROUND UNDERSIZE CRANKSHAFTS

| | | |
|---|---|---|
| 12 | 6N6231 | BEARING--ROD |
| 7 | 6N6230 | BEARING--MAIN |

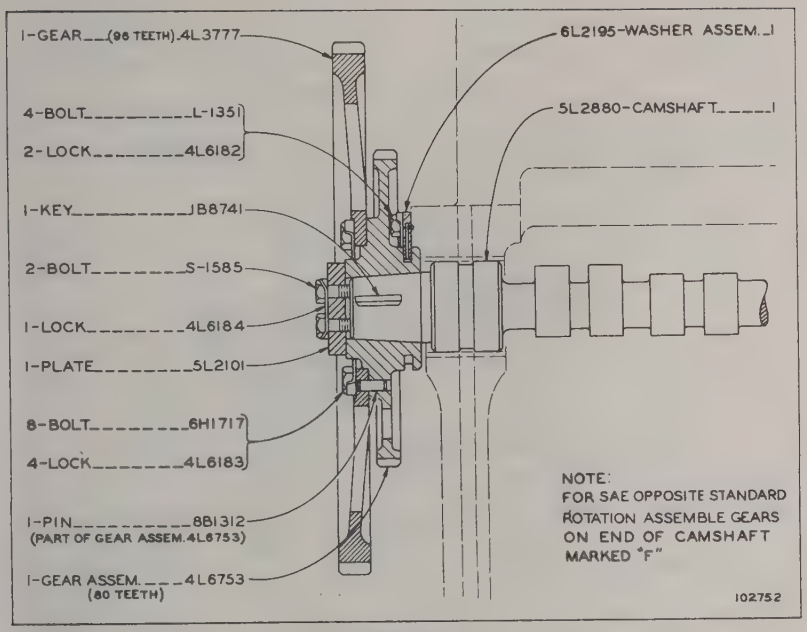
FOR USE WITH .025 OVERSIZE CYLINDER BLOCK

| | | |
|---|---|---|
| 1 | 6N6232 | BEARING--MAIN |

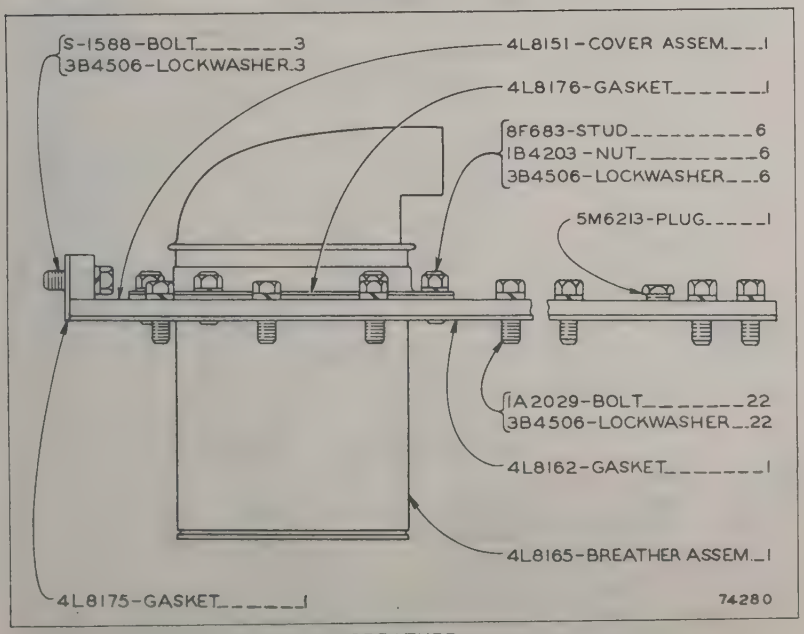
FOR USE WITH .025 UNDERSIZE CRANKSHAFT AND .025 OVERSIZE CYLINDER BLOCK

| | | |
|---|---|---|
| 7 | 6N6229 | BEARING--MAIN |

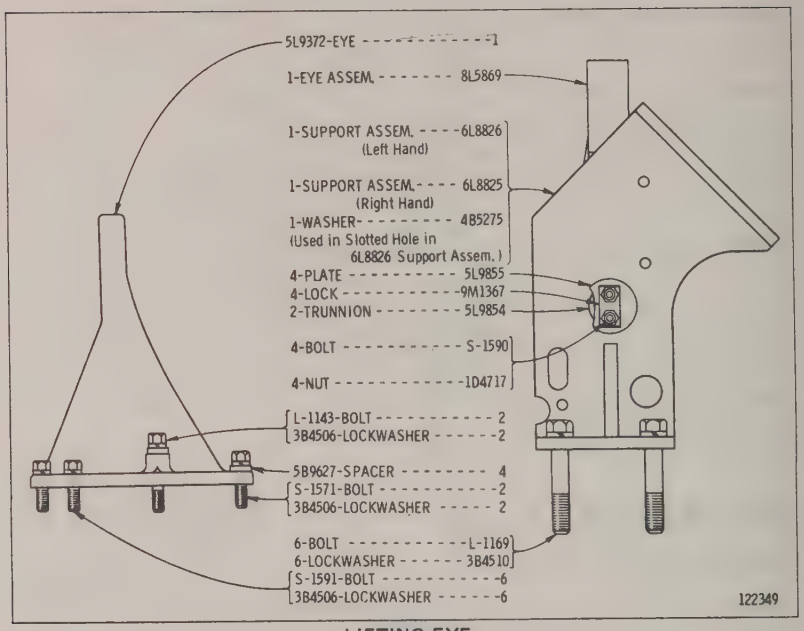
CONNECTING ROD AND CRANKSHAFT BEARING REPLACEMENTS



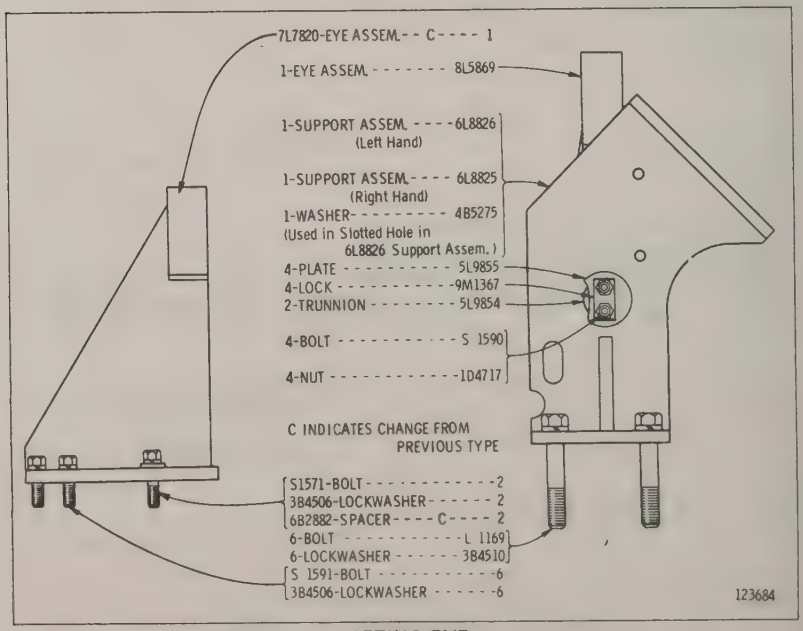

CAMSHAFT



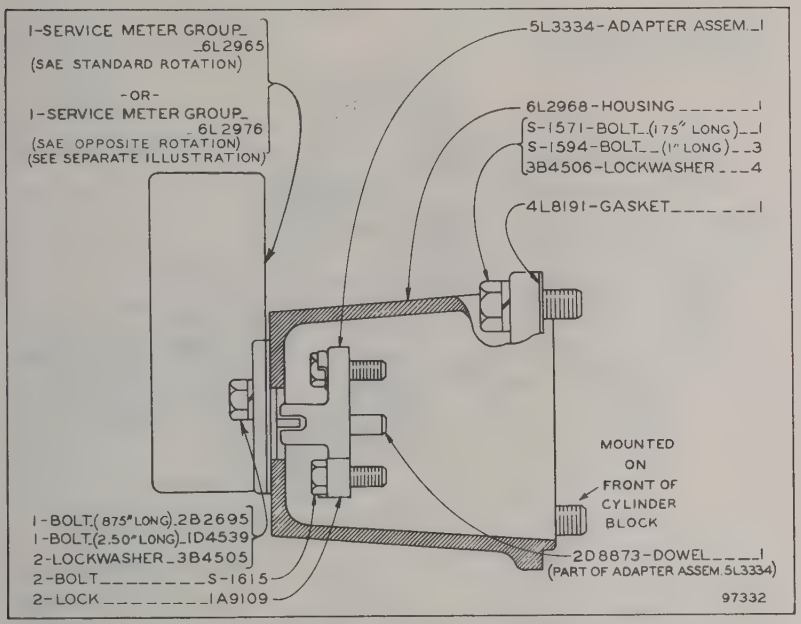

BREATHER
Effective with Serial No. 66B700-Up and 75B96-Up



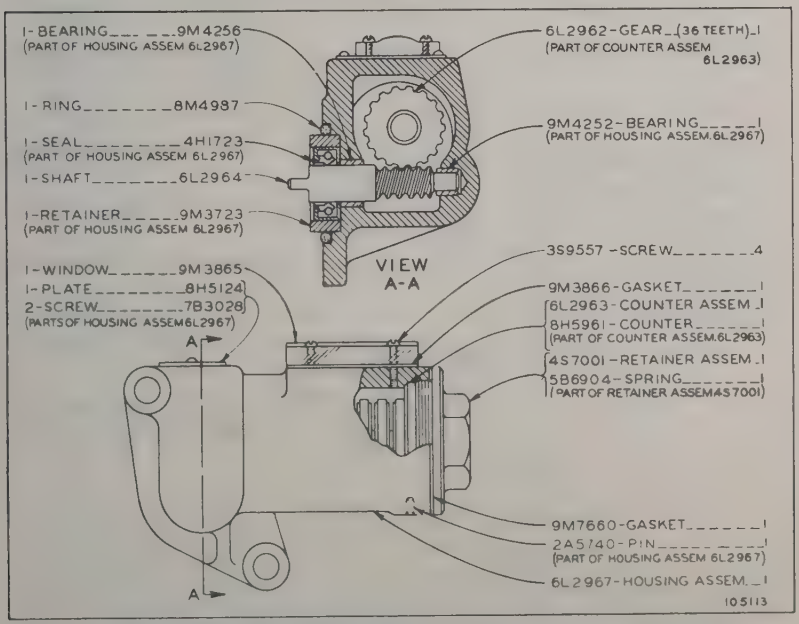

**LIFTING EYE**
**Serial No. 66B786 and 66B789 to 66B1822 inclusive and 75B96 to 75B926 inclusive**



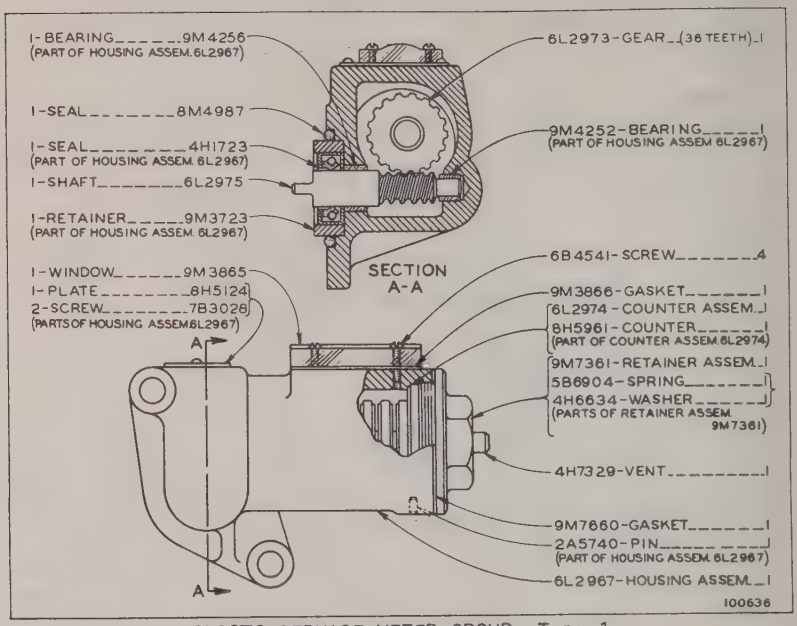

**LIFTING EYE**
**Effective with Serial No. 66B1823-Up and 75B927-Up**



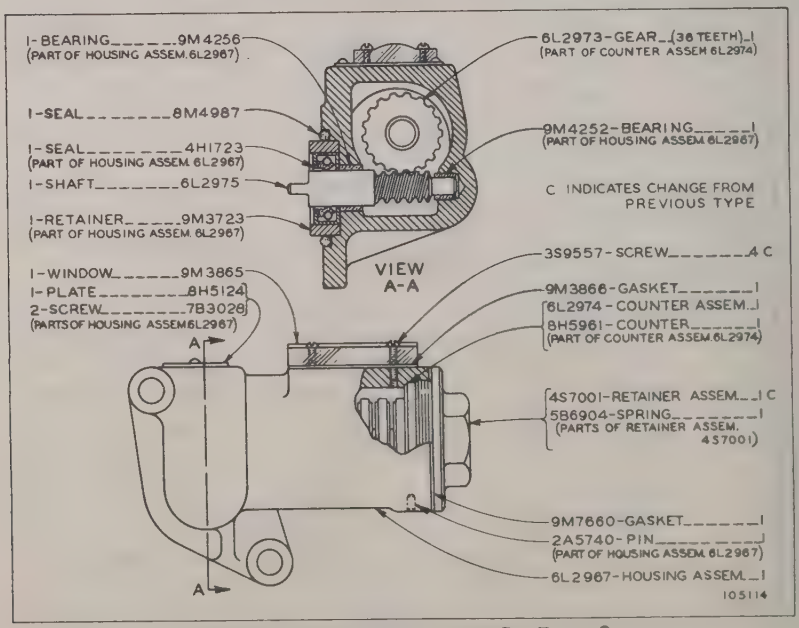

**SERVICE METER (6L2987 N/S)**
**6L2976 Service Meter Group parts are shown on Page 48**



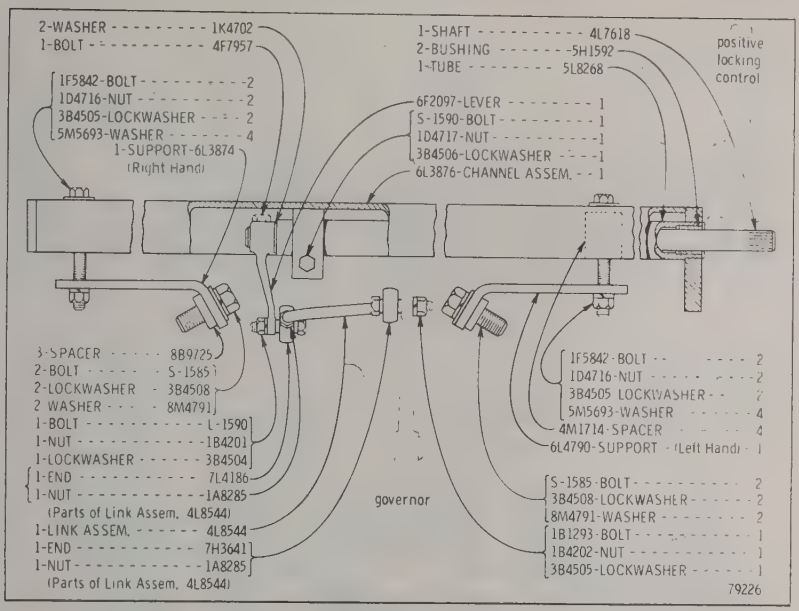

**6L2965 SERVICE METER GROUP—S.A.E. Standard Engine Rotation**
**Part of Service Meter**



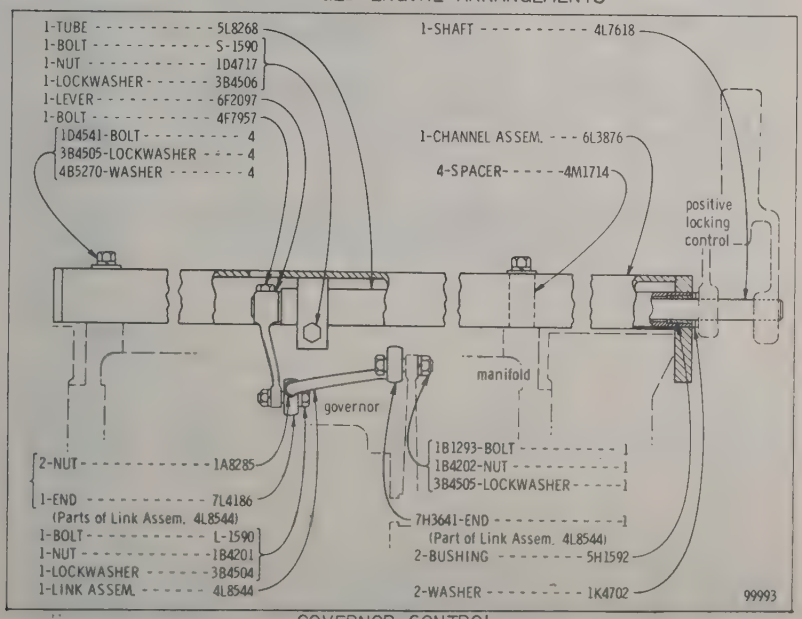

6L2976 SERVICE METER GROUP--TYPE 1
S.A.E. OPPOSITE STANDARD ENGINE ROTATION
PART OF SERVICE METER SHOWN ON PAGE 47



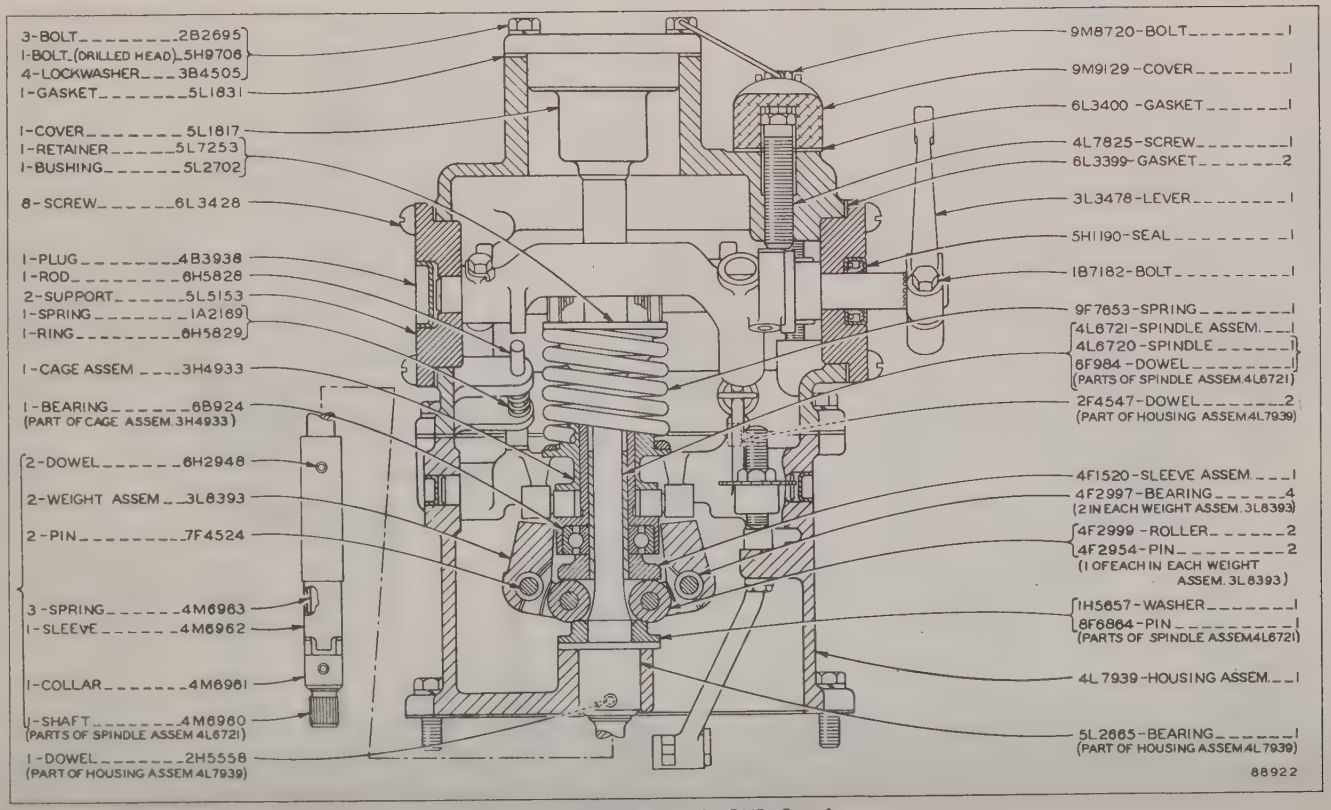

6L2976 SERVICE METER GROUP--TYPE 2
S.A.E. OPPOSITE STANDARD ENGINE ROTATION
PART OF SERVICE METER SHOWN ON PAGE 47




GOVERNOR CONTROL
EFFECTIVE WITH SERIAL No. 66B700. PART OF 4L1127 S.A.E. STANDARD, 5L2664 AND 5L7149 S.A.E. OPPOSITE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS




GOVERNOR CONTROL
EFFECTIVE WITH SERIAL No. 7581. PART OF 6L4984 S.A.E. STANDARD, 5L2664 AND 5L7149 S.A.E. OPPOSITE ROTATION TURBOCHARGED ENGINE ARRANGEMENTS

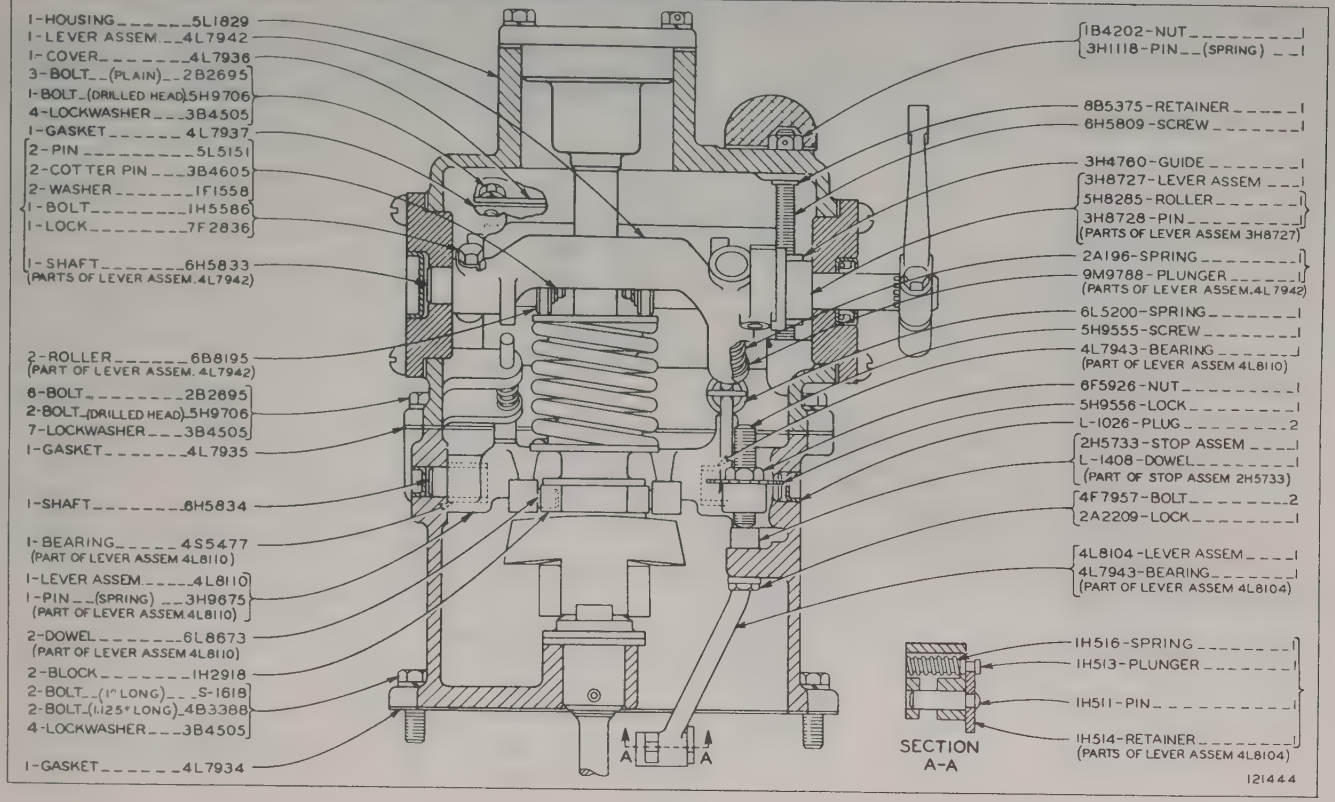


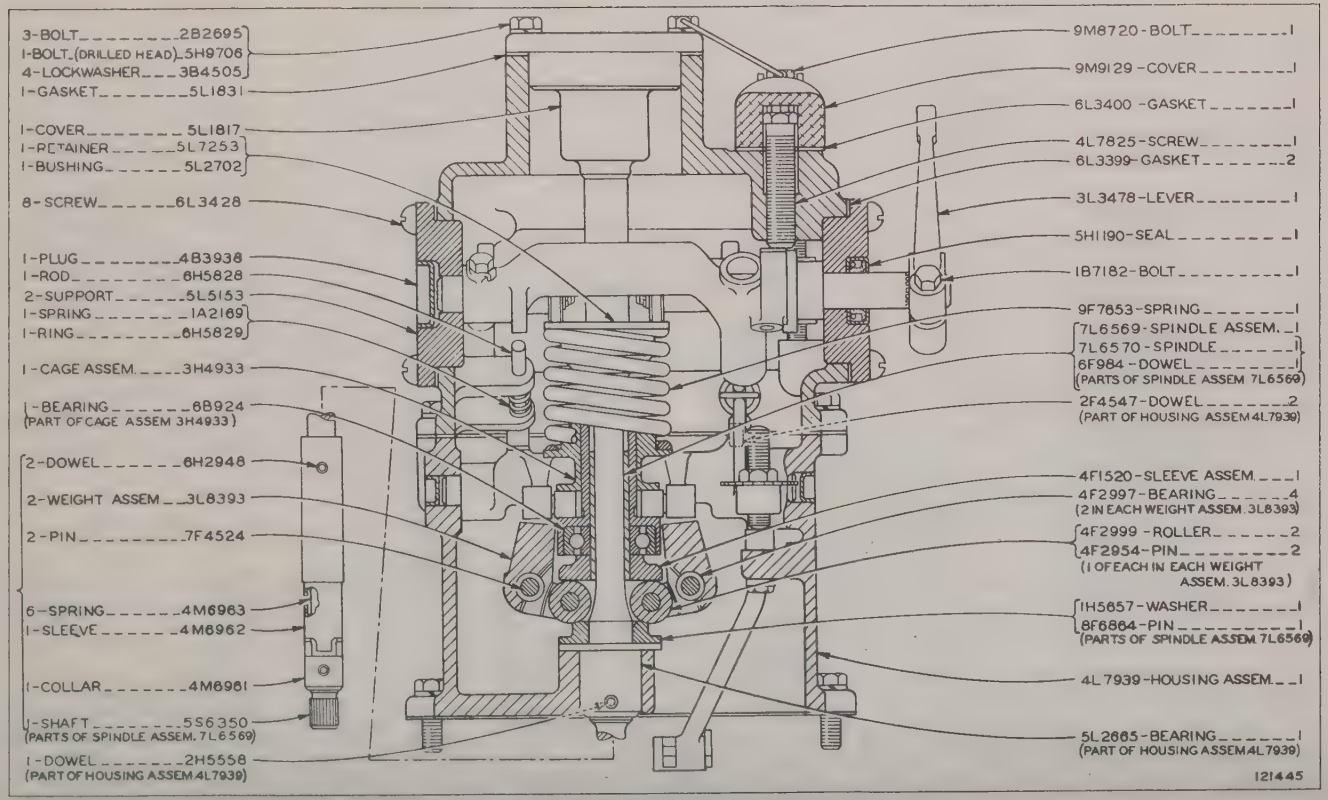

**4L1144 GOVERNOR GROUP—Part 1**
Serial No. 66B700 to 66B1660 inclusive and 75B1 to 75B601 inclusive
Refer also to Pages 148 through 153 for special parts

## 4L1144 GOVERNOR GROUP—Part 2

Serial No. 66B700 to 66B1660 inclusive and 75B1 to 75B601 inclusive

Refer also to Pages 148 through 153 for special parts



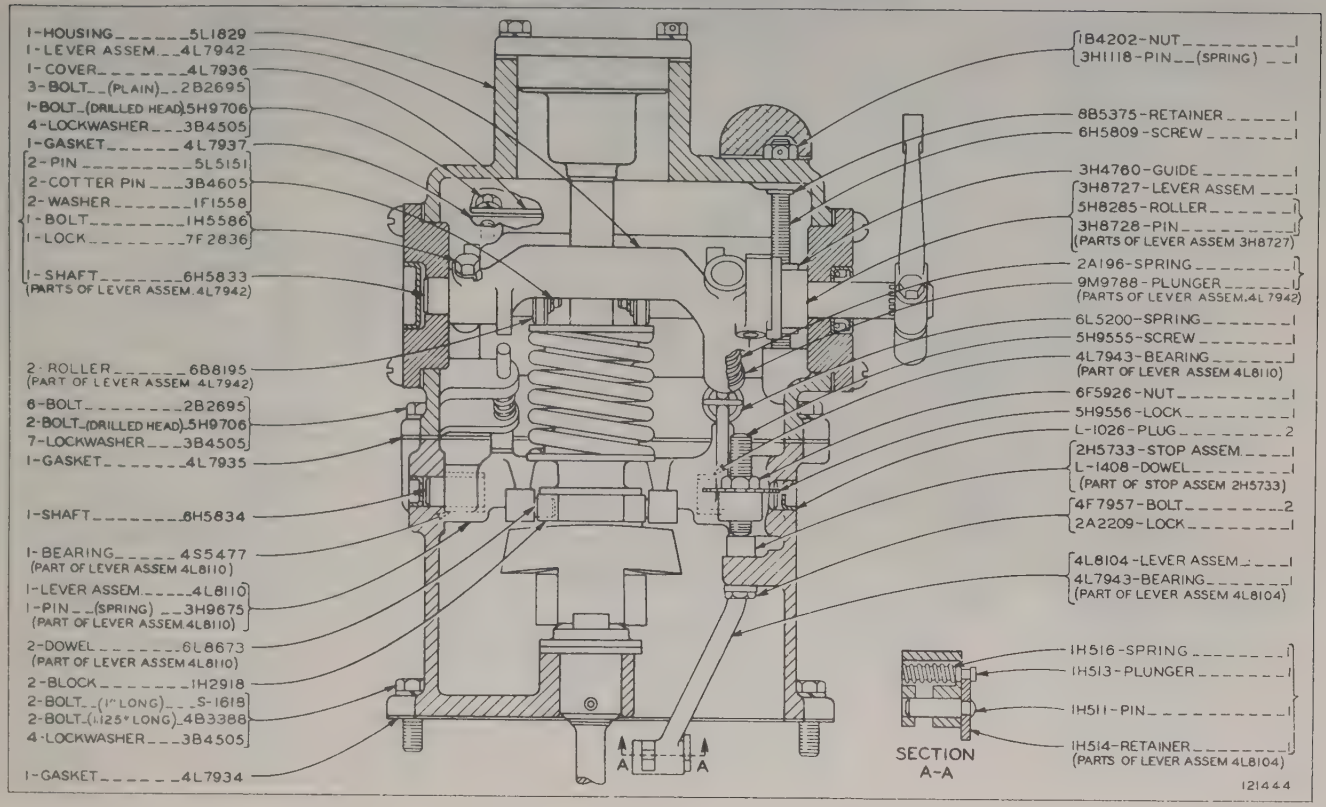


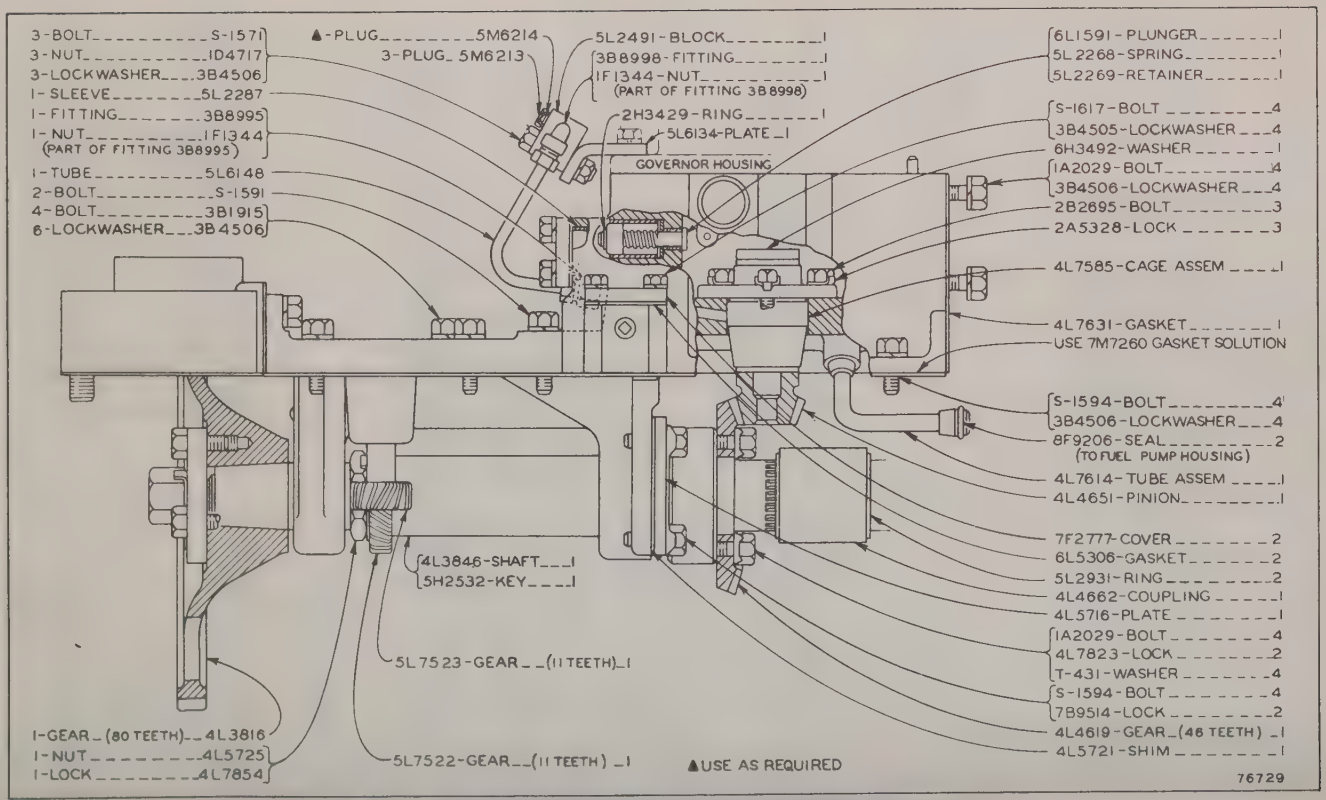

**4L1144 GOVERNOR GROUP—Part 1**
**Effective with Serial No. 66B1661-Up and 75B602-Up**
Refer also to Pages 148 through 153 for special parts

## 4L1144 GOVERNOR GROUP—Part 2

**Effective with Serial No. 66B1661-Up and 75B602-Up**

**Refer also to Pages 148 through 153 for special parts**



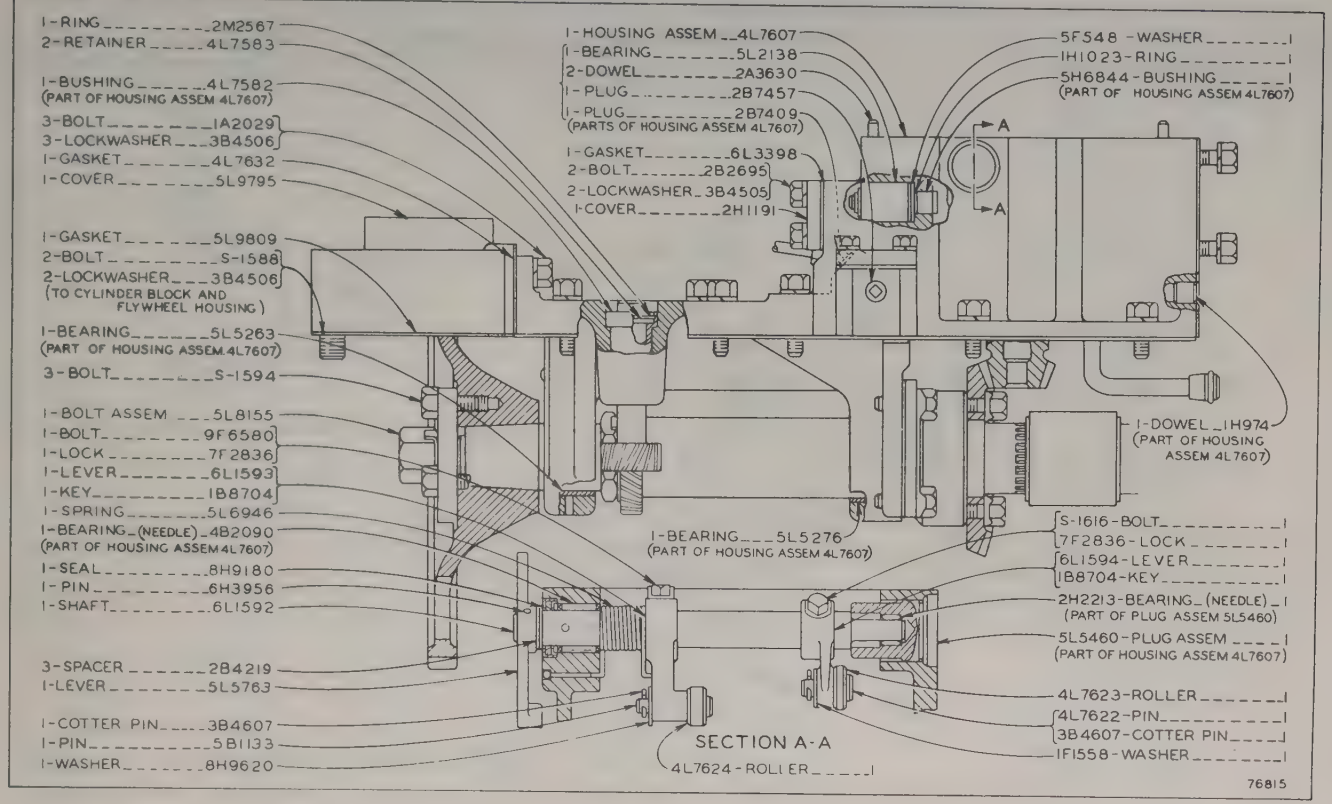


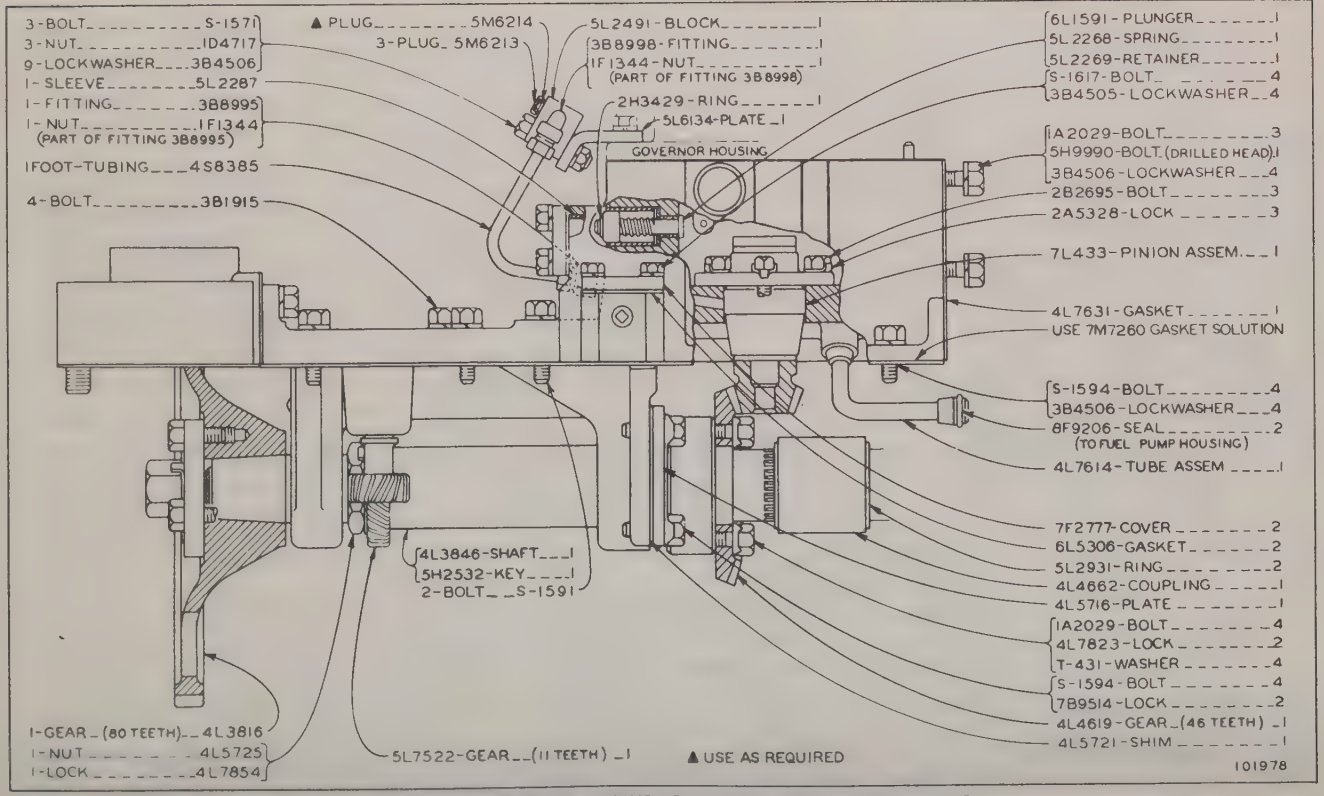

FUEL PUMP AND GOVERNOR DRIVE—S.A.E. Standard Engine Rotation—Part 1
Serial No. 66B700 to 66B1163 inclusive and 75B1 to 75B219 inclusive
PART OF 4L1127 AND 6L4984 TURBOCHARGED ENGINE ARRANGEMENTS

## FUEL PUMP AND GOVERNOR DRIVE—S.A.E. Standard Engine Rotation—Part 2

Serial No. 66B700 to 66B1163 inclusive and 75B1 to 75B219 inclusive

PART OF 4L1127 AND 6L4984 TURBOCHARGED ENGINE ARRANGEMENTS. Refer also to Page 140 for special parts






**FUEL PUMP AND GOVERNOR DRIVE—S.A.E. Standard Engine Rotation—Part 1**

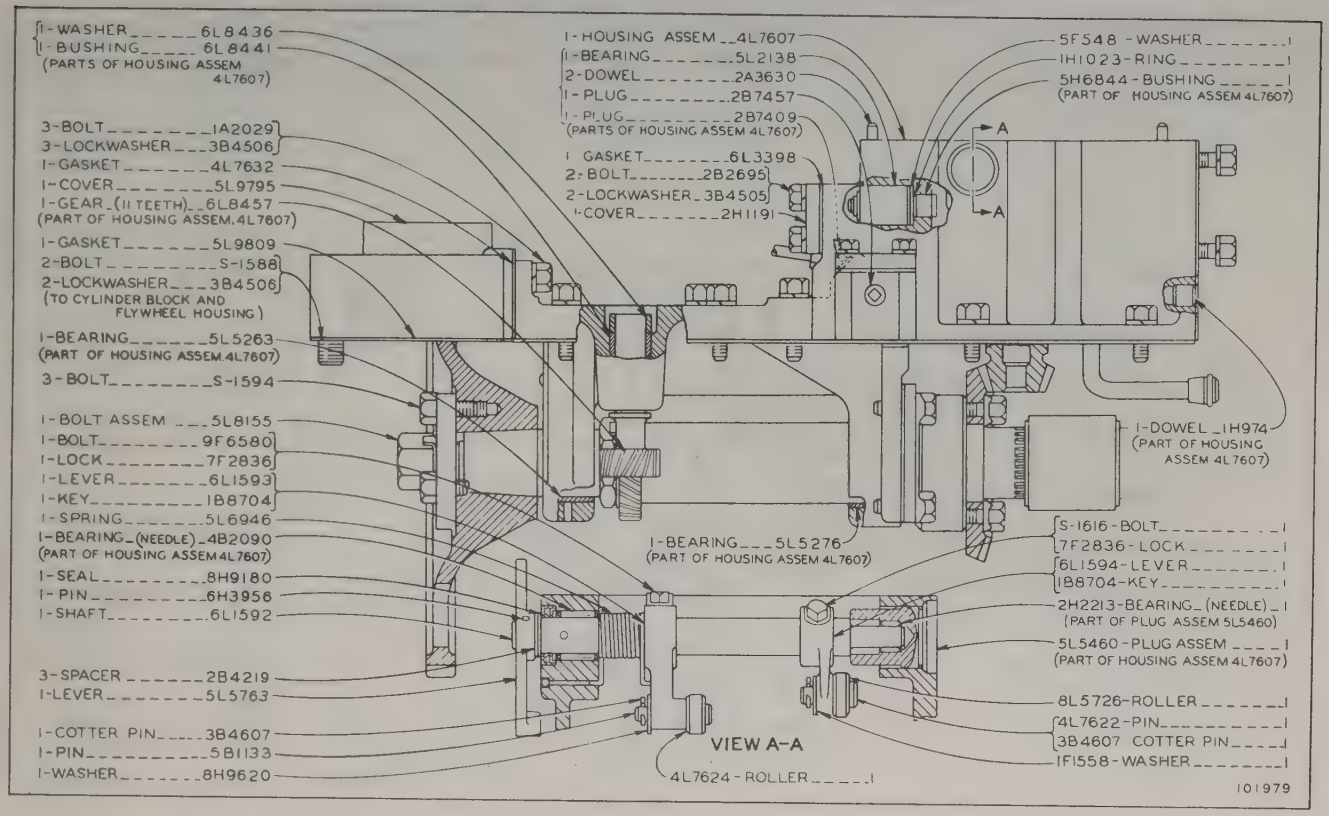
Effective with Serial No. 66B1164—Up and 75B220—Up

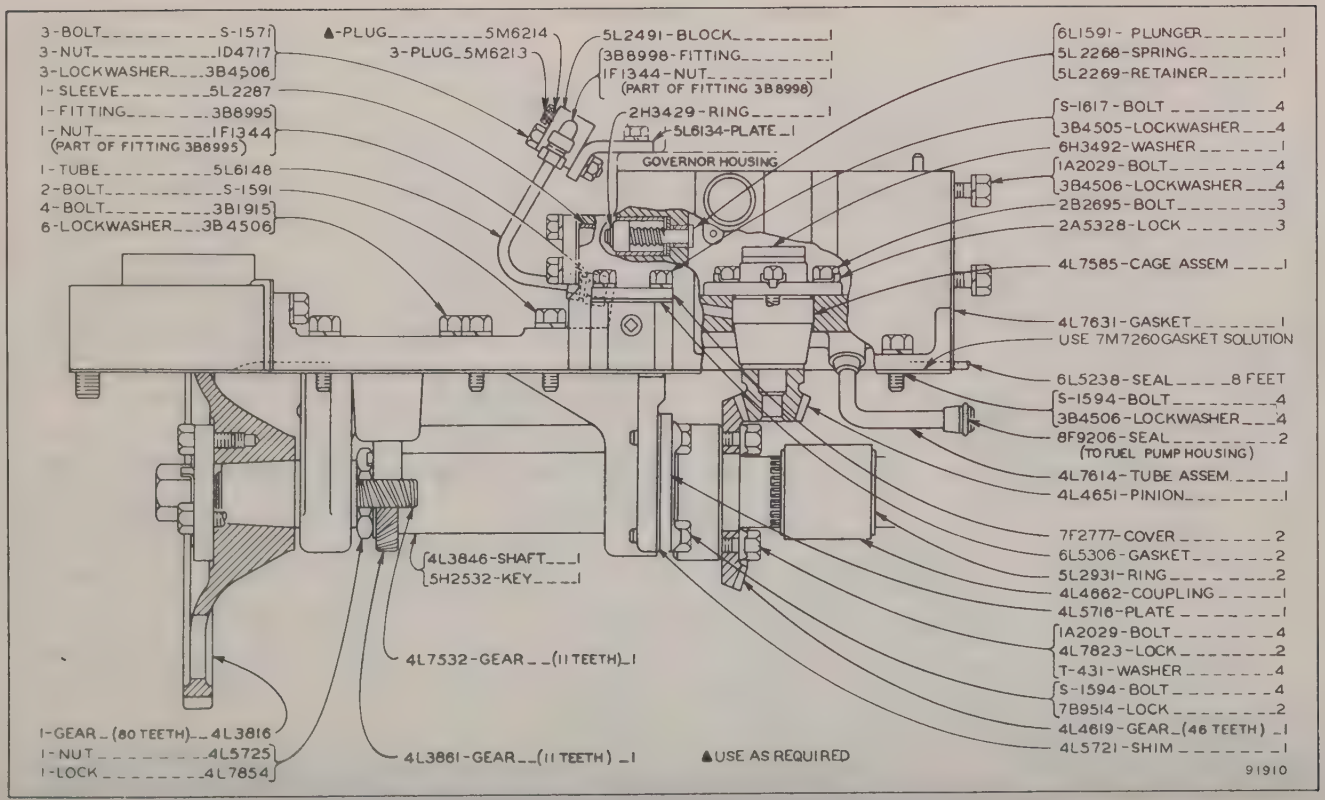
PART OF 4L1127 AND 6L4984 TURBOCHARGED ENGINE ARRANGEMENTS. Refer also to Page 140 for special parts

## FUEL PUMP AND GOVERNOR DRIVE—S.A.E. Standard Engine Rotation—Part 2

Effective with Serial No. 66B1164—Up and 75B220—Up

PART OF 4L1127 AND 6L4984 TURBOCHARGED ENGINE ARRANGEMENTS



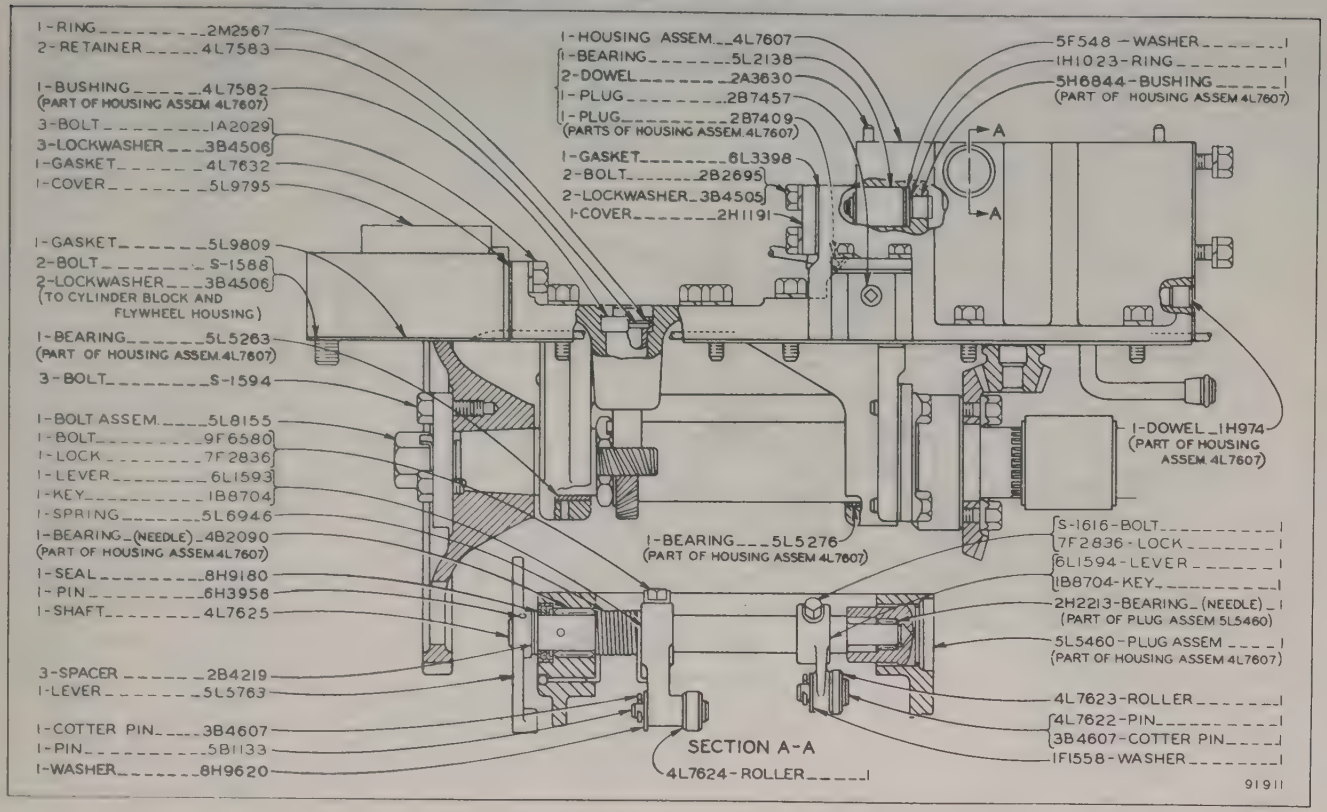


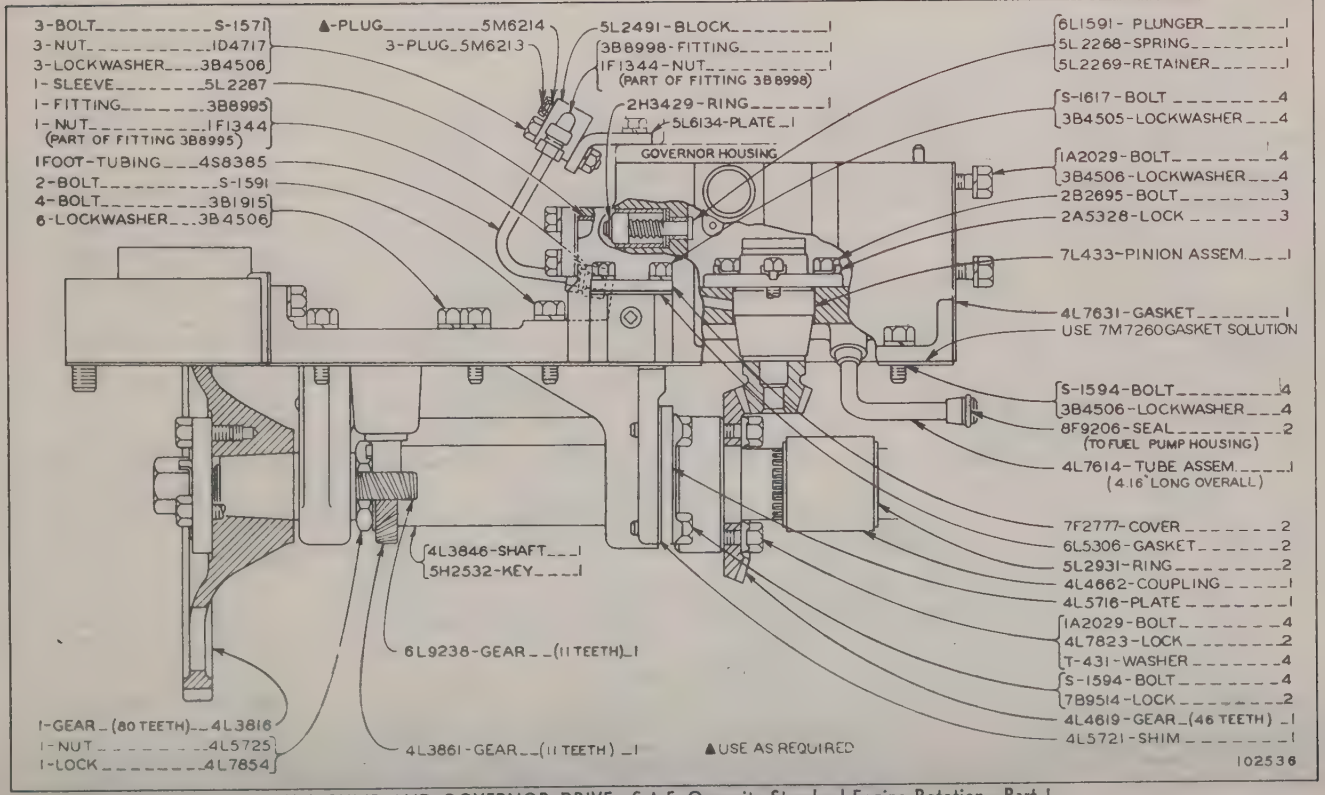

FUEL PUMP AND GOVERNOR DRIVE—S.A.E. Opposite Standard Engine Rotation—Part 1
Serial No. 66B700 to 66B1163 inclusive and 75B1 to 75B219 inclusive
PART OF 5L2664 AND 5L7149 TURBOCHARGED ENGINE ARRANGEMENTS

## FUEL PUMP AND GOVERNOR DRIVE—S.A.E. Opposite Standard Engine Rotation—Part 2

Serial No. 66B700 to 66B1163 inclusive and 75B1 to 75B219 inclusive

PART OF 5L2664 AND 5L7149 TURBOCHARGED ENGINE ARRANGEMENTS. Refer also to Page 140 for special parts






**FUEL PUMP AND GOVERNOR DRIVE—S.A.E. Opposite Standard Engine Rotation—Part 1**

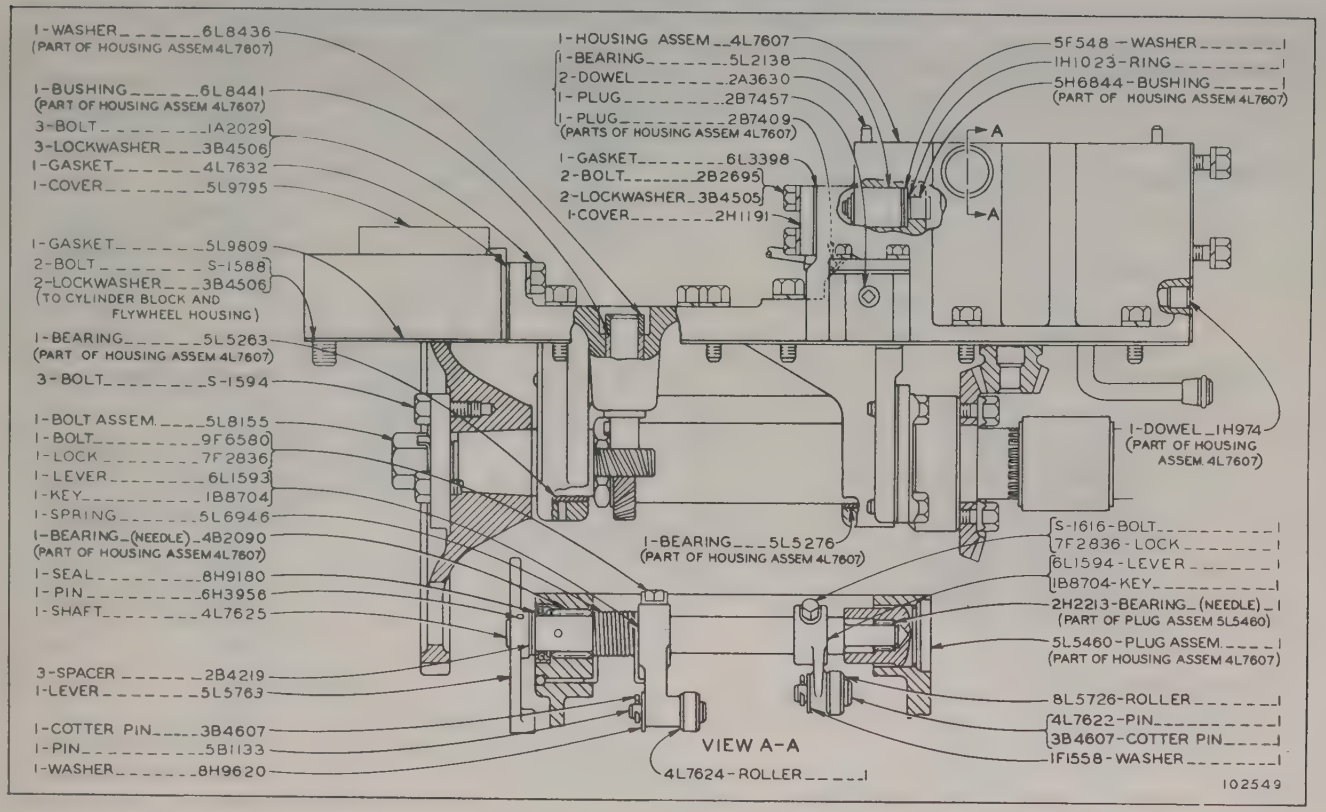
Effective with Serial No. 66B1164—Up and 75B220—Up

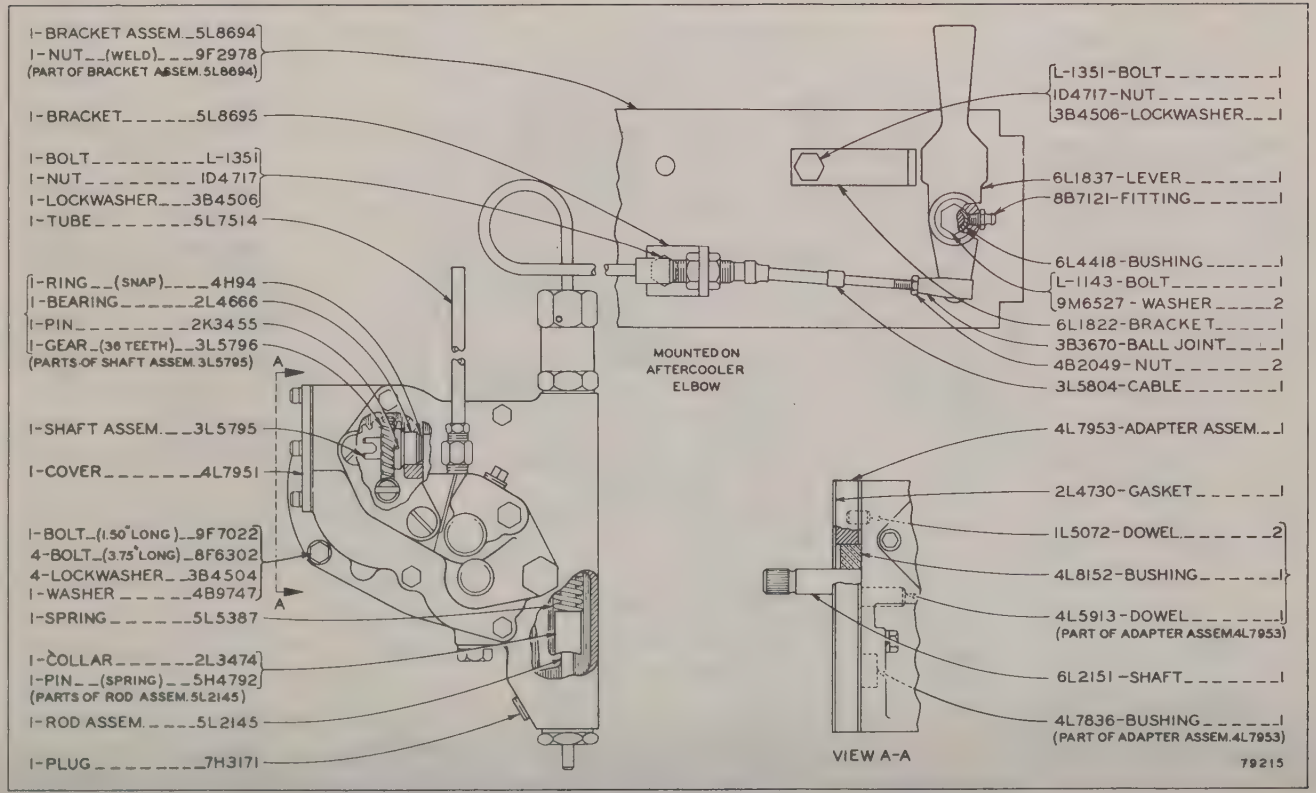
PART OF 5L2664 AND 5L7149 TURBOCHARGED ENGINE ARRANGEMENTS. Refer also to Page 140 for special parts

## FUEL PUMP AND GOVERNOR DRIVE—S.A.E. Opposite Standard Engine Rotation—Part 2

Effective with Serial No. 66B1164—Up and 75B220—Up

PART OF 5L2664 AND 5L7149 TURBOCHARGED ENGINE ARRANGEMENTS

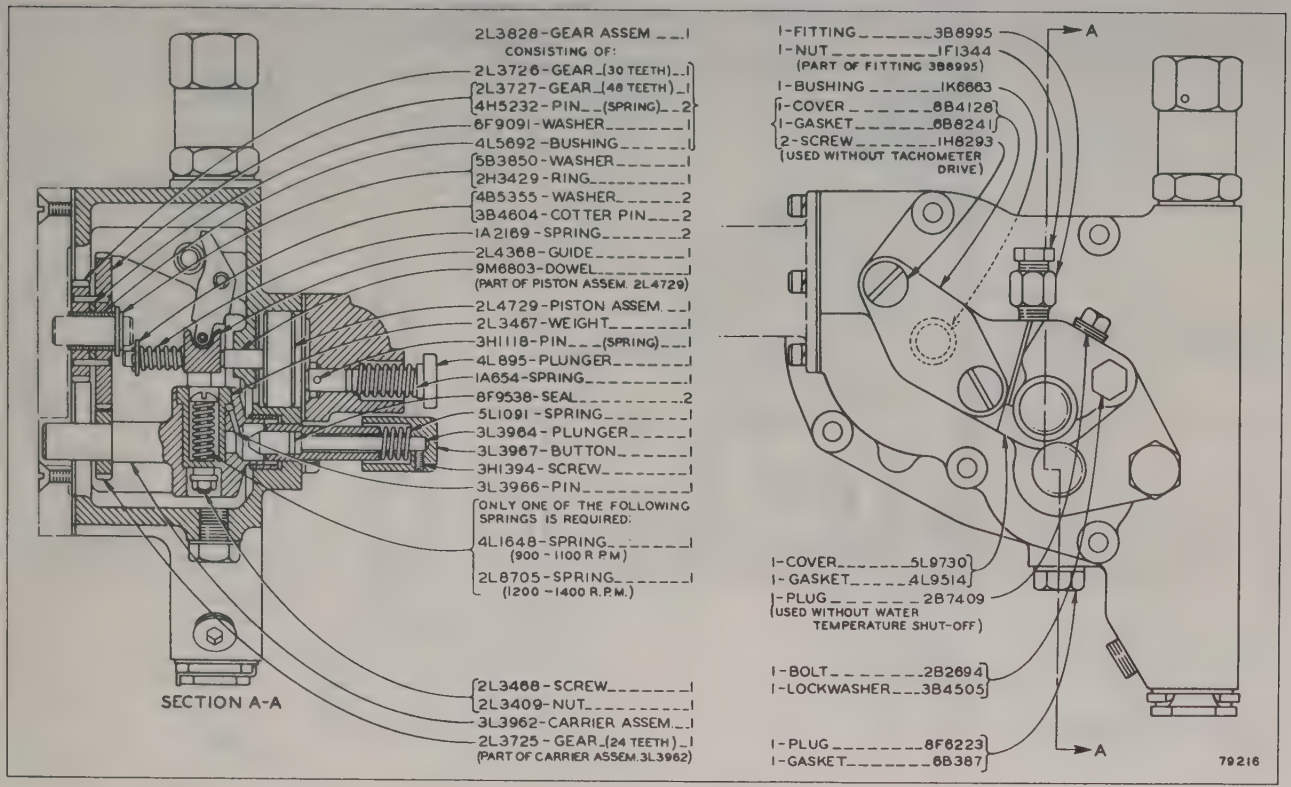


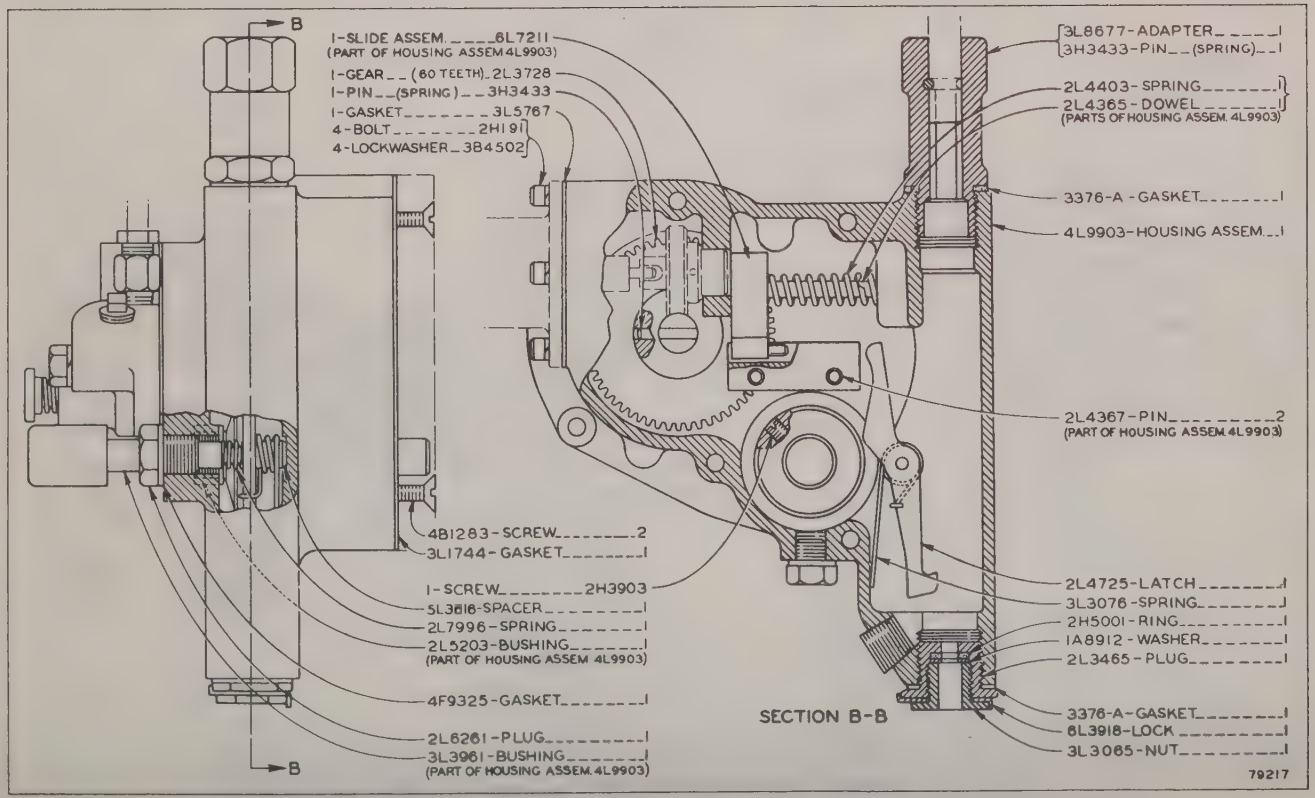



4L8129 SAFETY CONTROL SHUT-OFF GROUP--R.H. AND L.H.--PART 1 OF 3
SERIAL NO. 66B700 TO 66B1414 INCLUSIVE AND 75B1 TO 75B3741 INCLUSIVE
REFER ALSO TO PAGE 142 FOR SPECIAL PARTS

# 4L8129 SAFETY CONTROL SHUT-OFF GROUP--SECTIONAL VIEW OF HOUSING--PART 2 OF 3

SERIAL NO. 66B700 TO 66B1414 INCLUSIVE AND 75B1 TO 75B374 INCLUSIVE



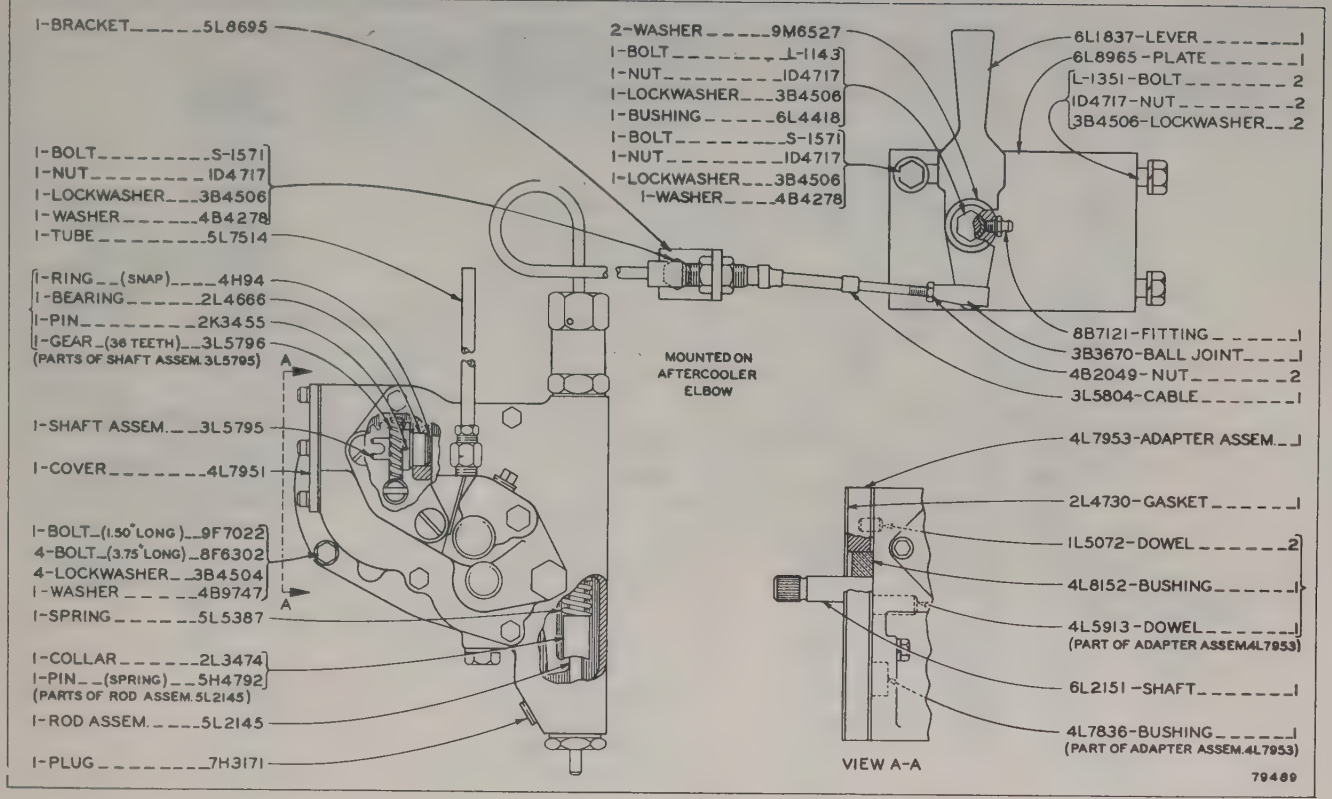


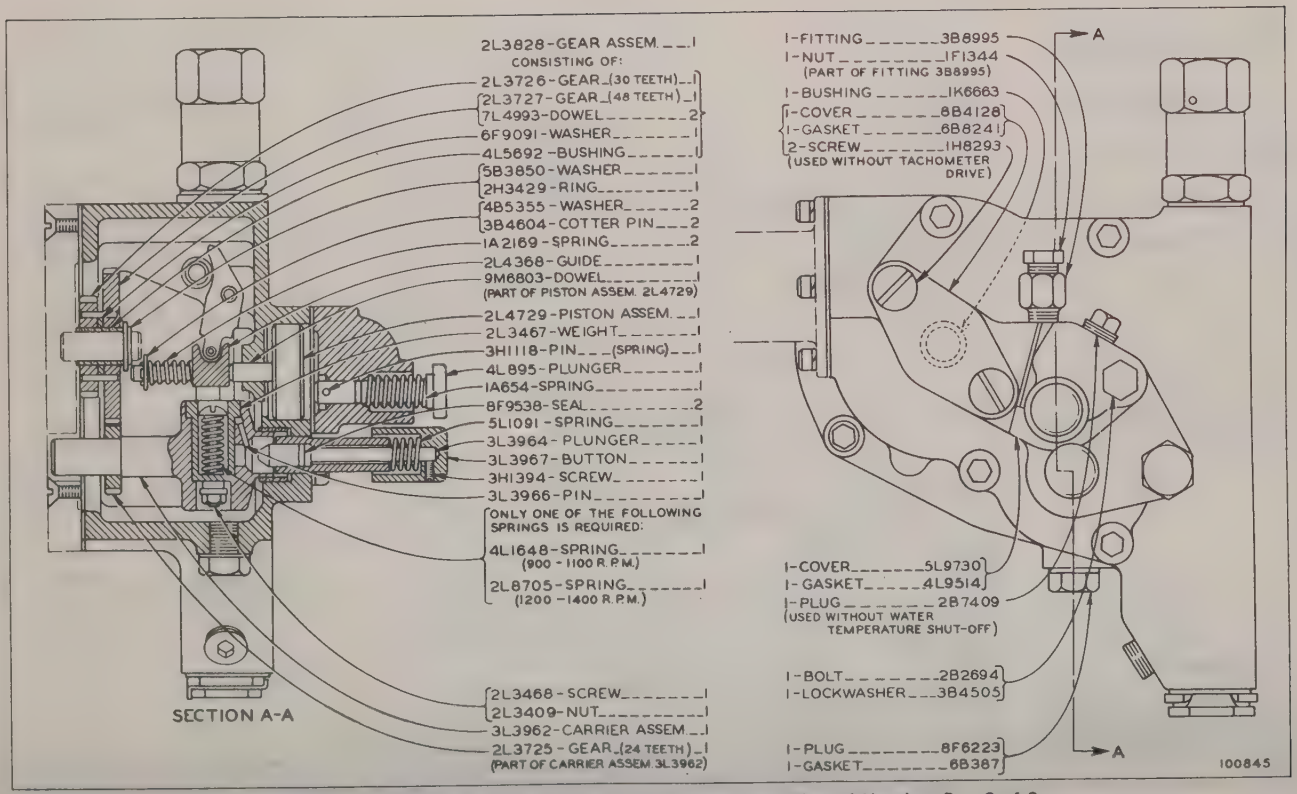

4L8129 SAFETY CONTROL SHUT-OFF GROUP--SECTIONAL VIEW OF HOUSING--PART 3 OF 3
SERIAL NO. 66B700 TO 66B1414 INCLUSIVE AND 75B1 TO 75B374 INCLUSIVE

## 6L9237 SAFETY CONTROL SHUT-OFF GROUP—R.H. and L.H.—Part 1 of 3

Serial No. 66B1415 to 66B1690 inclusive and 75B375 to 75B681 inclusive

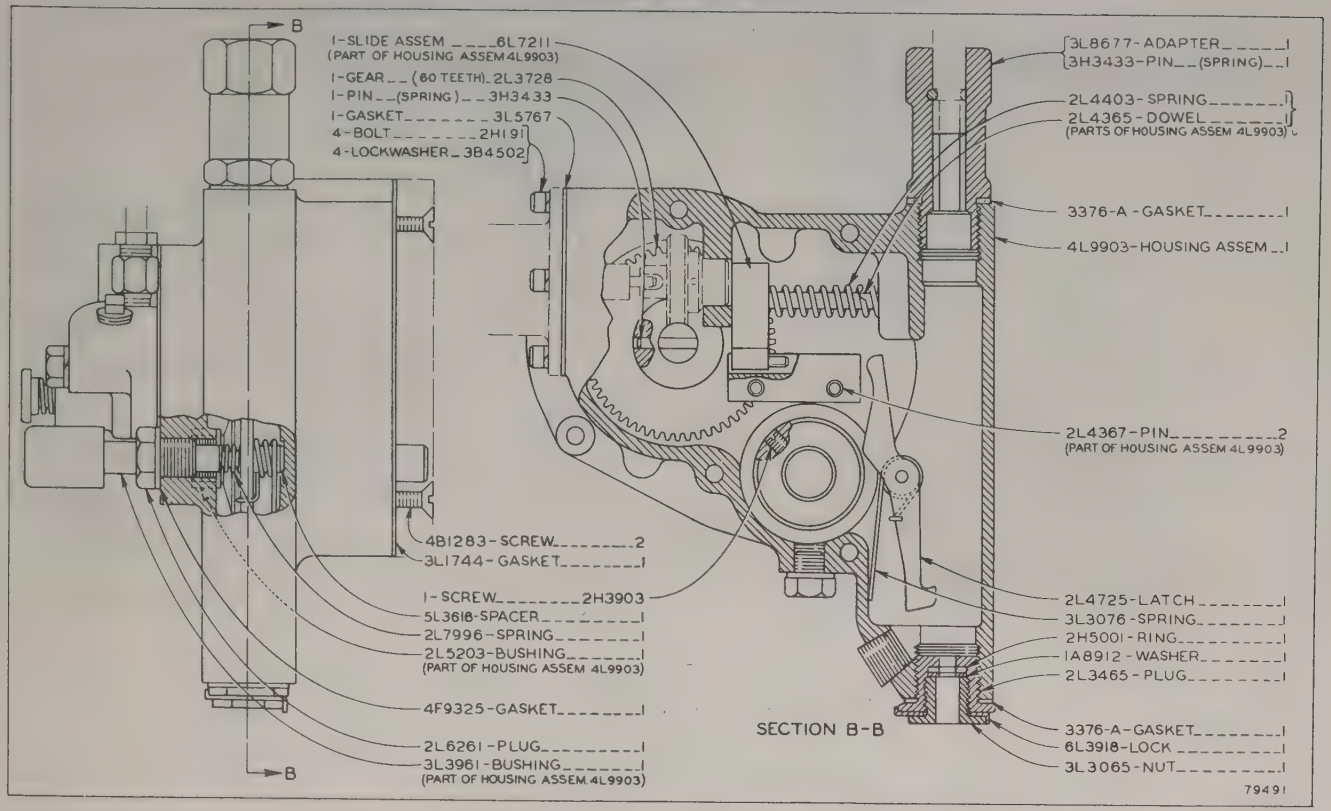
Refer also to Page 142 for special parts

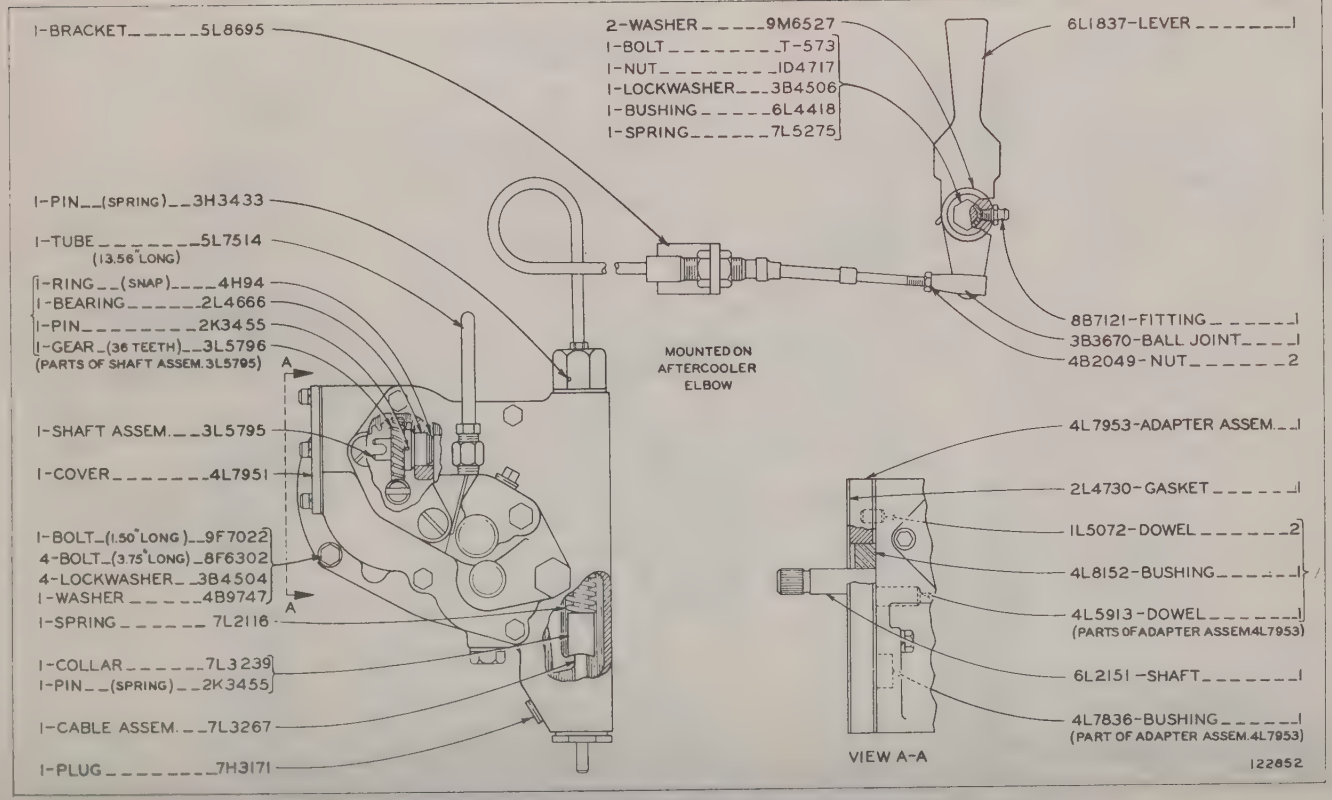





6L9237 SAFETY CONTROL SHUT-OFF GROUP—Sectional View of Housing—Part 2 of 3
Serial No. 66B1415 to 66B1690 inclusive and 75B375 to 75B681 inclusive

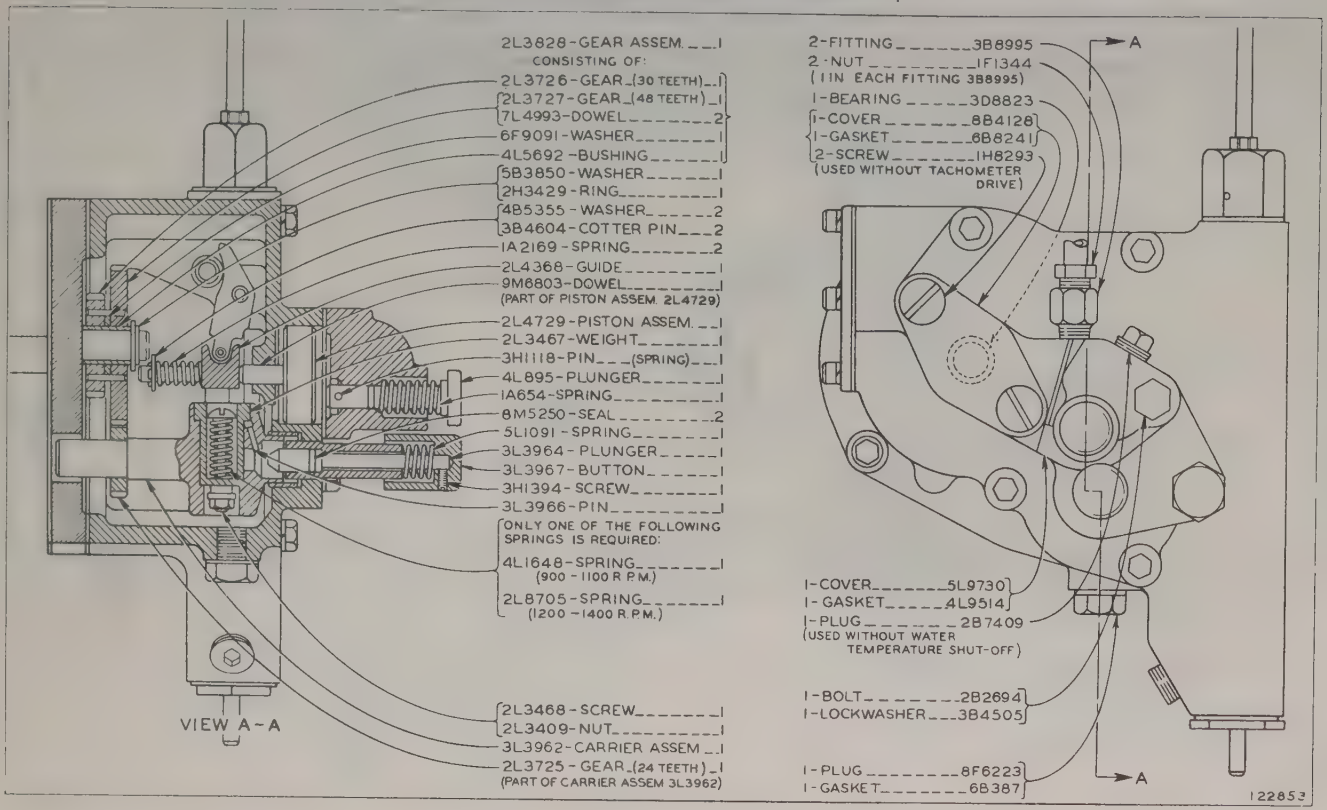
## 6L9237 SAFETY CONTROL SHUT-OFF GROUP—Sectional View of Housing—Part 3 of 3
Serial No. 66B1415 to 66B1690 and 75B375 to 75B681 inclusive

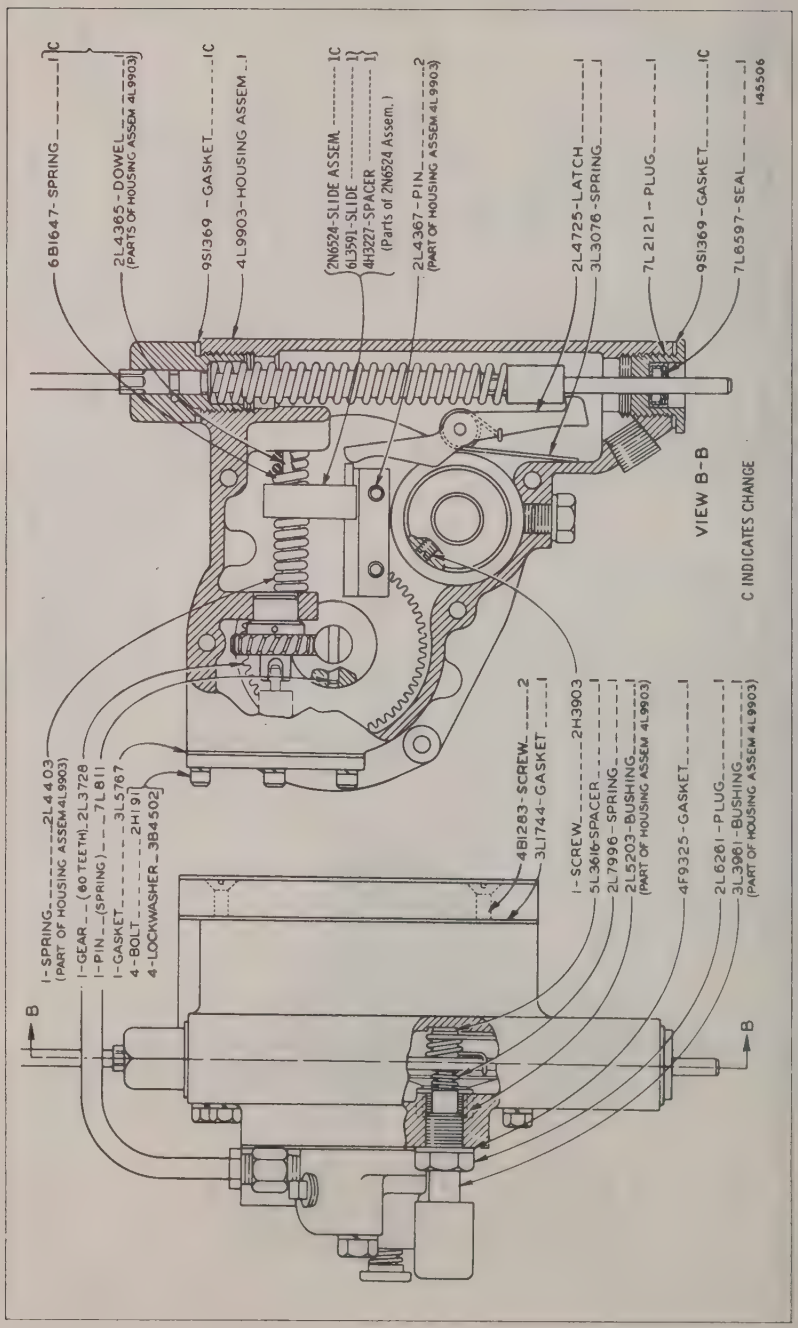





6L9237 SAFETY CONTROL SHUT-OFF GROUP—R.H. and L.H.—Part 1 of 3—Type 2
Serial No. 66B1691 to 66B2331 inclusive and 75B682—Up
Refer also to Page 142 for special parts

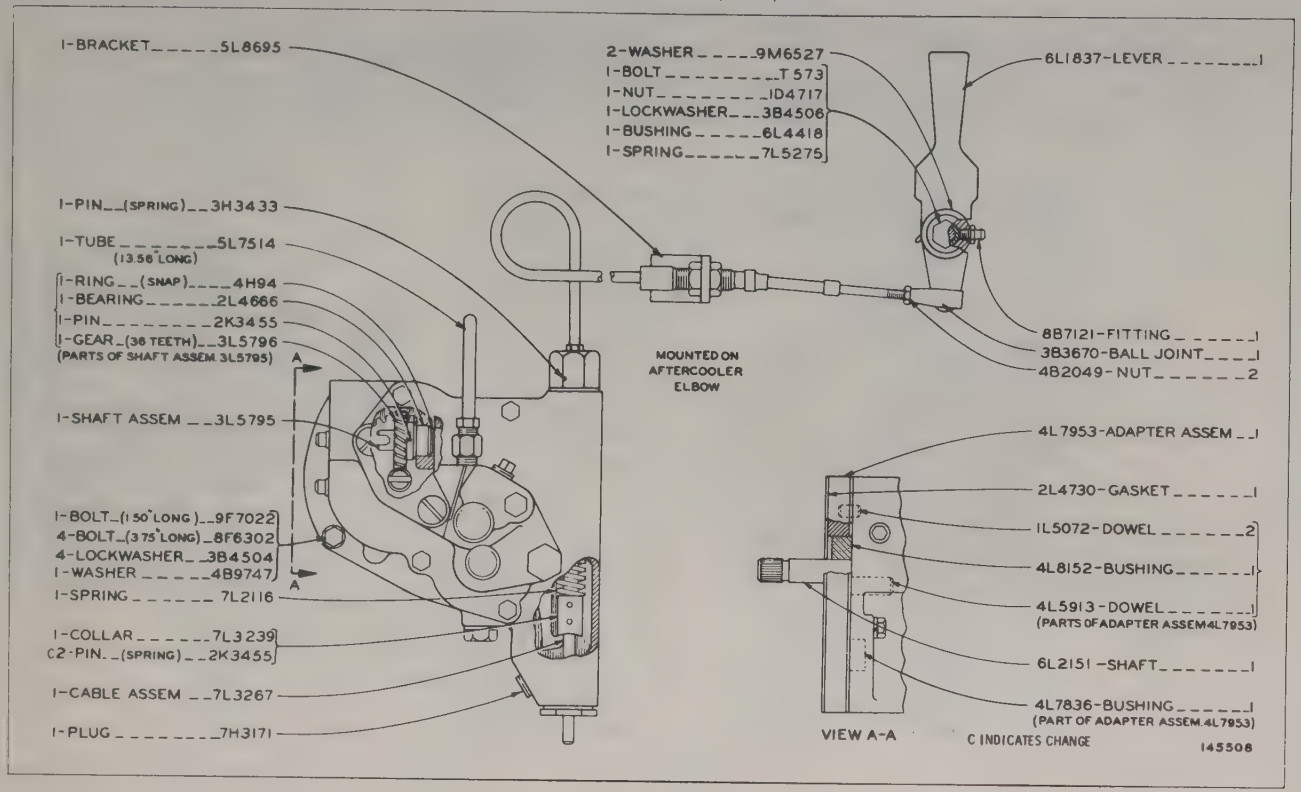
## 6L9237 SAFETY CONTROL SHUT-OFF GROUP—Sectional View of Housing—Part 2 of 3—Type 2
Serial No. 66B1691 to 66B2331 inclusive and 75B682—Up

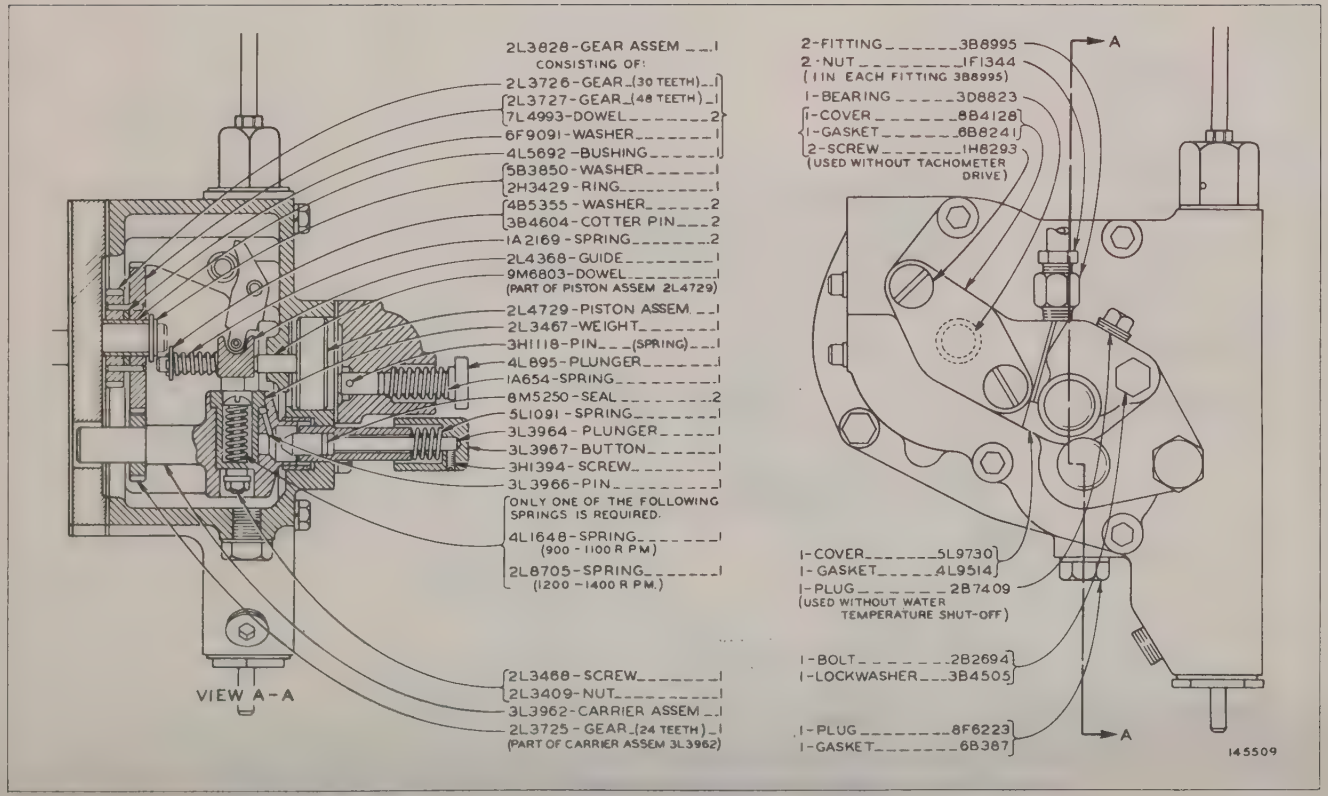





6L9237 SAFETY CONTROL SHUT-OFF GROUP—Sectional View of Housing—Part 3 of 3—Type 2
Serial No. 66B1691 to 66B2331 inclusive and 75B682—Up

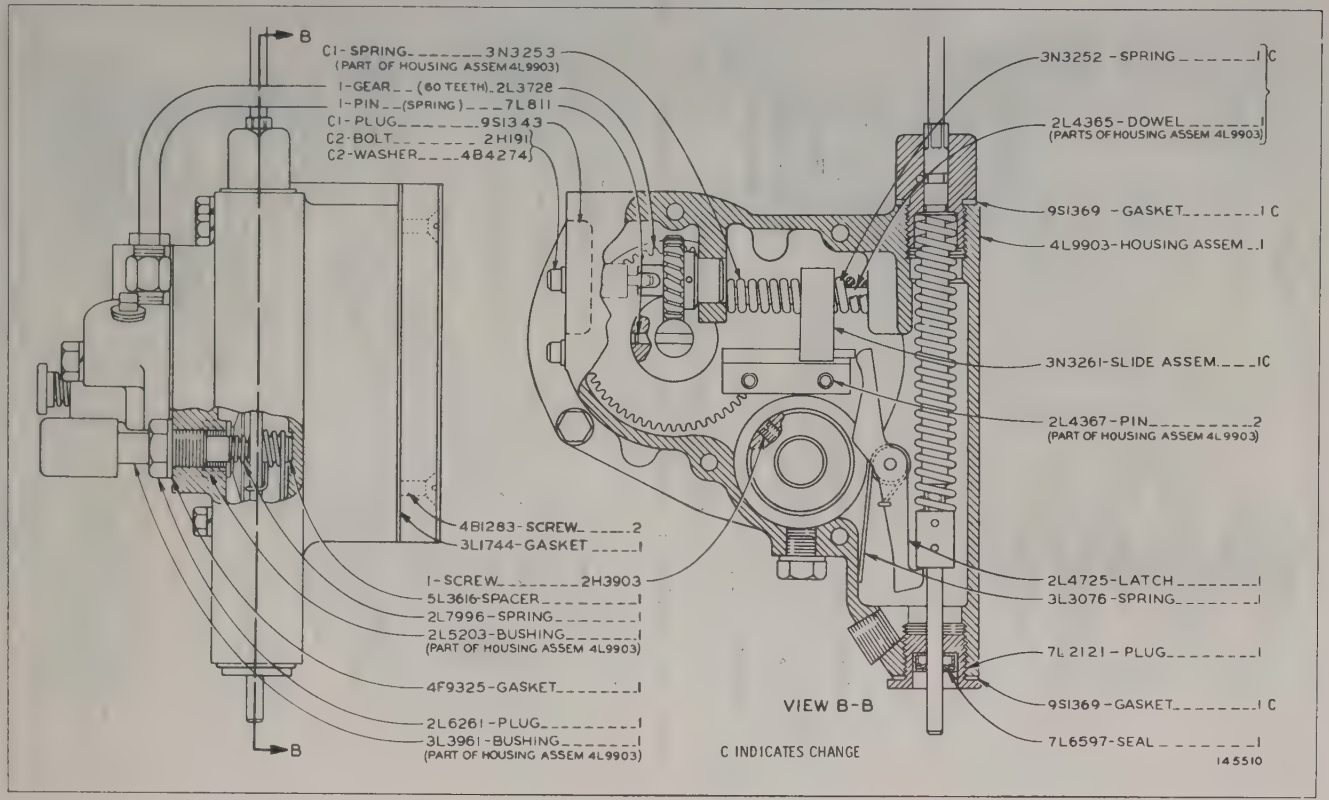
6L9237 SAFETY CONTROL SHUT-OFF GROUP—R.H. and L.H.—Part 1 of 3—Type 3
Serial No. 66B1691 to 66B2331 inclusive and 75B682—Up
Refer also to Page 142 for special parts

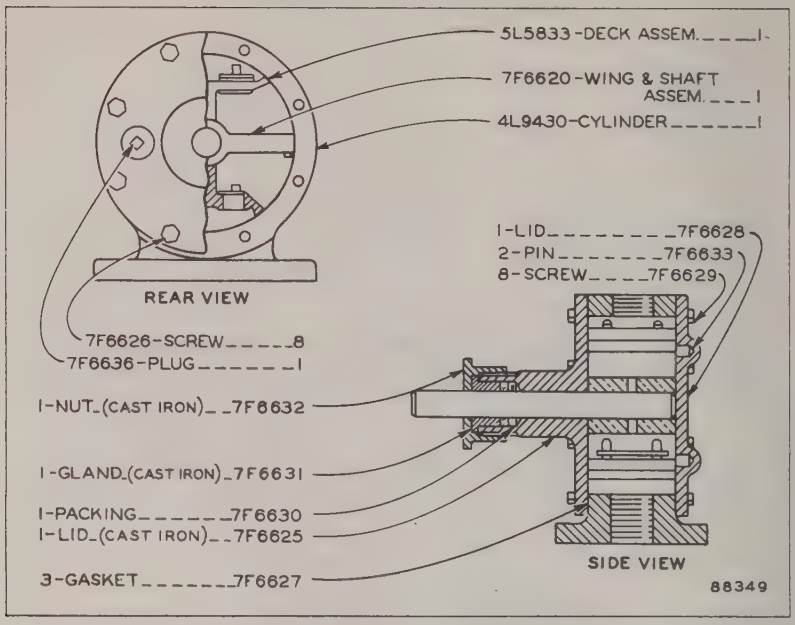




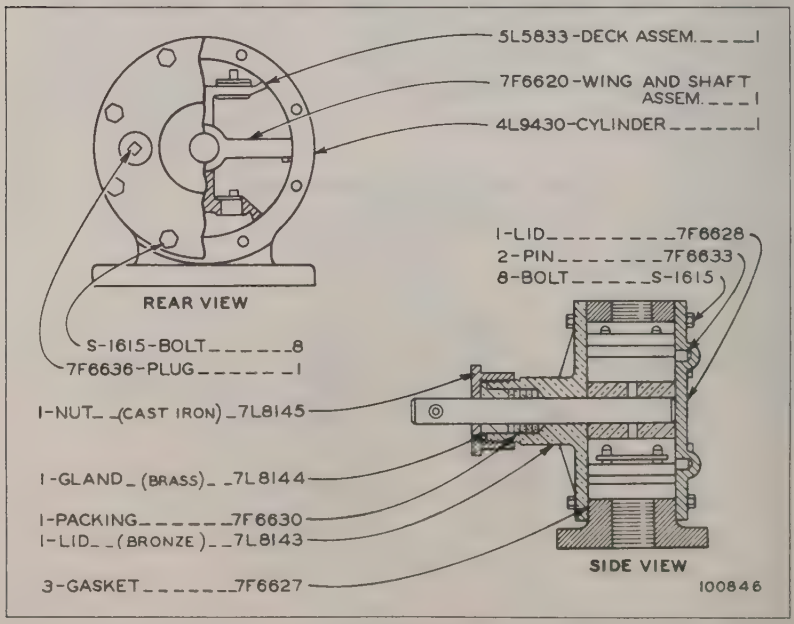

6L9237 SAFETY CONTROL SHUT-OFF GROUP—Sectional View of Housing—Part 2 of 3—Type 3
Serial No. 66B1691 to 66B2331 inclusive and 75B682—Up

6L9237 SAFETY CONTROL SHUT-OFF GROUP—Sectional View of Housing—Part 3 of 3—Type 3
Serial No. 66B1691 to 66B2331 inclusive and 75B682—Up

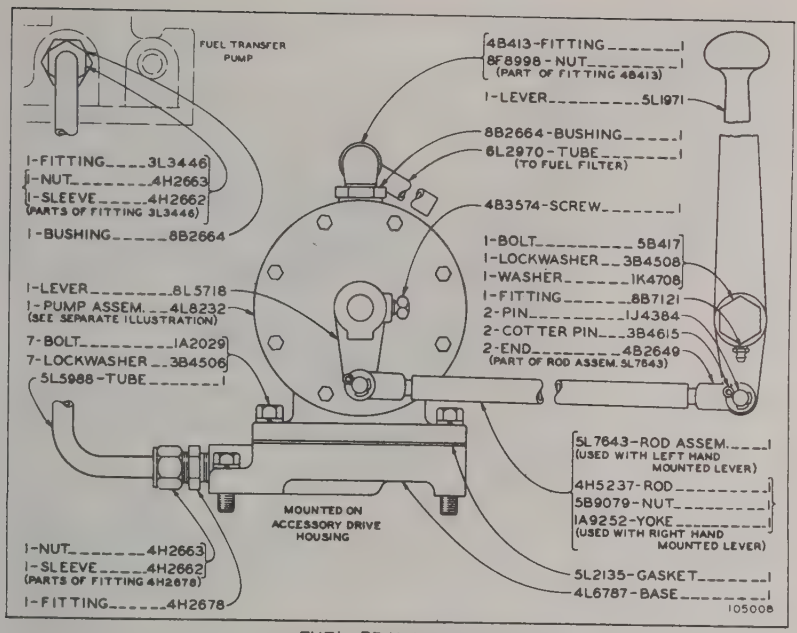




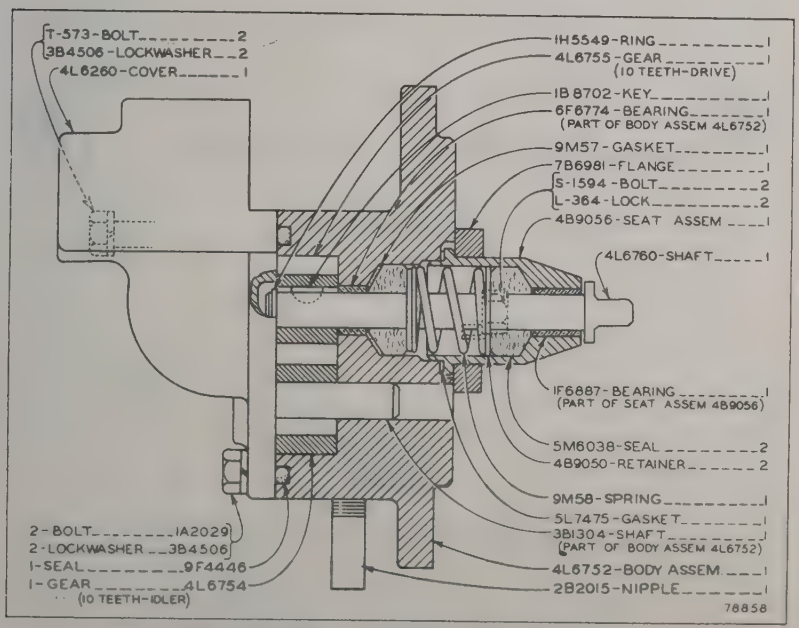

4L8232 PUMP
SERIAL NO. 668700 TO 668761 INCLUSIVE & 75B1 TO 75B95 INCLUSIVE
PART OF FUEL PRIMING PUMP



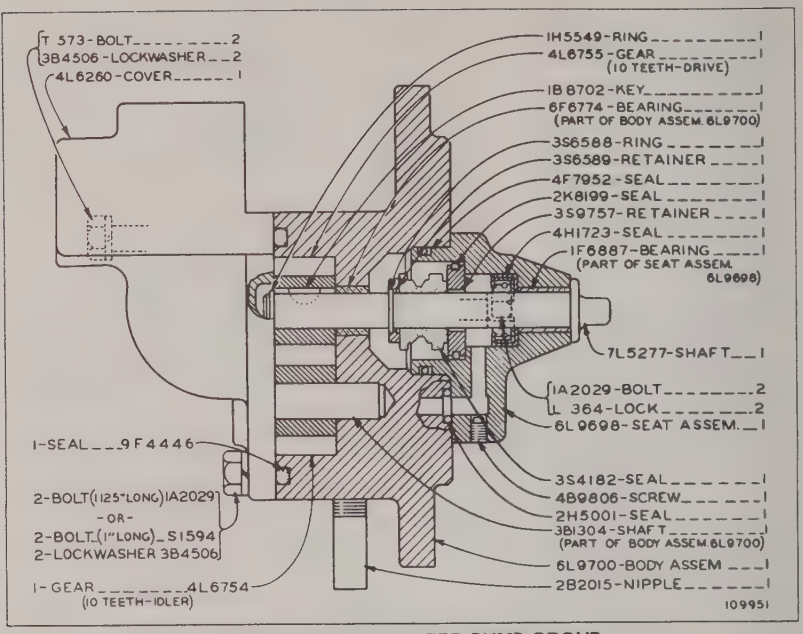

4L8232 PUMP
EFFECTIVE WITH SERIAL NO. 668762-UP AND 75B96-UP
PART OF FUEL PRIMING PUMP



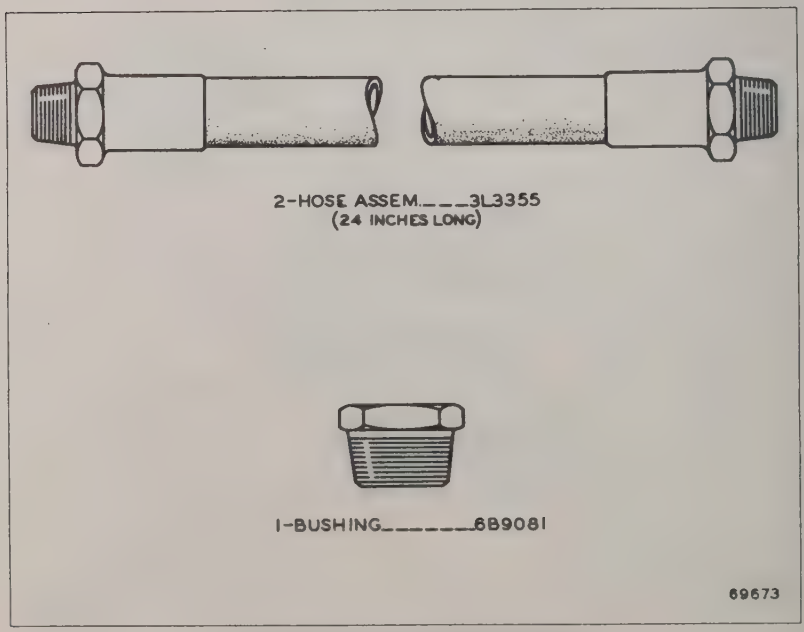

FUEL PRIMING PUMP




4L1156 FUEL TRANSFER PUMP GROUP
SERIAL No. 668700 TO 668 1418 INCLUSIVE AND
75B1 TO 75B375 INCLUSIVE



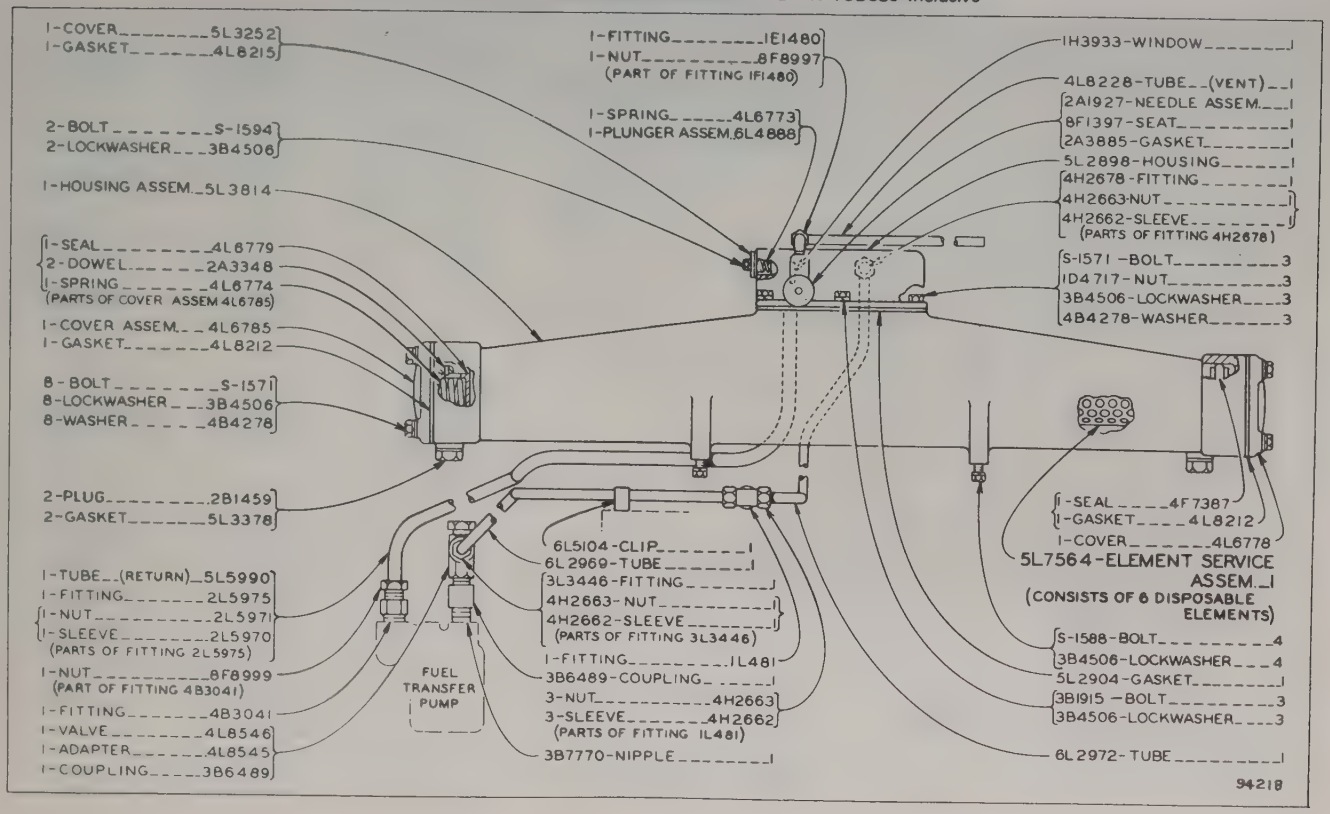

**6L9697 FUEL TRANSFER PUMP GROUP**
**Serial No. 66B1419—Up and 76B376—Up**

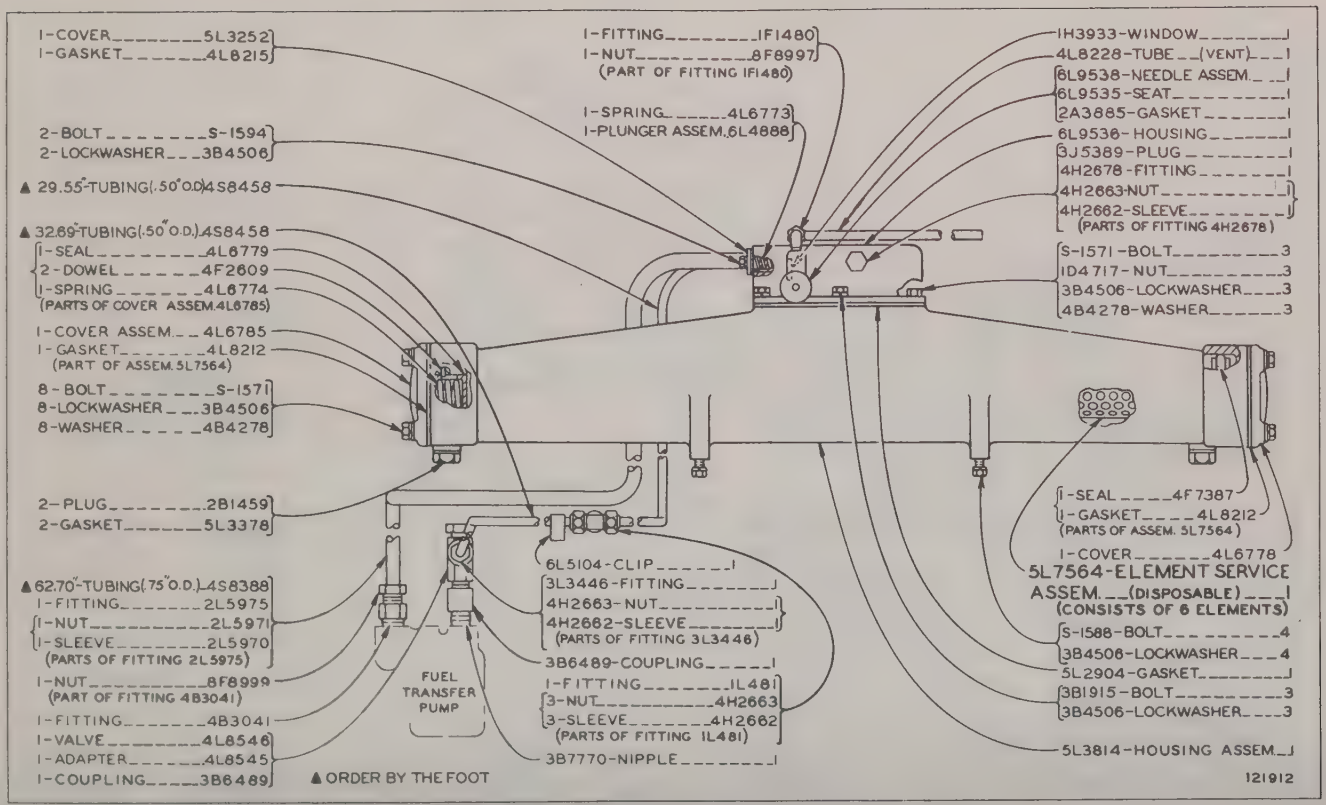



FLEXIBLE FUEL LINES (5L6775 N/S)

## FUEL FILTER

Serial No. 66B700 to 66B1699 inclusive and 75B1 to 75B689 inclusive



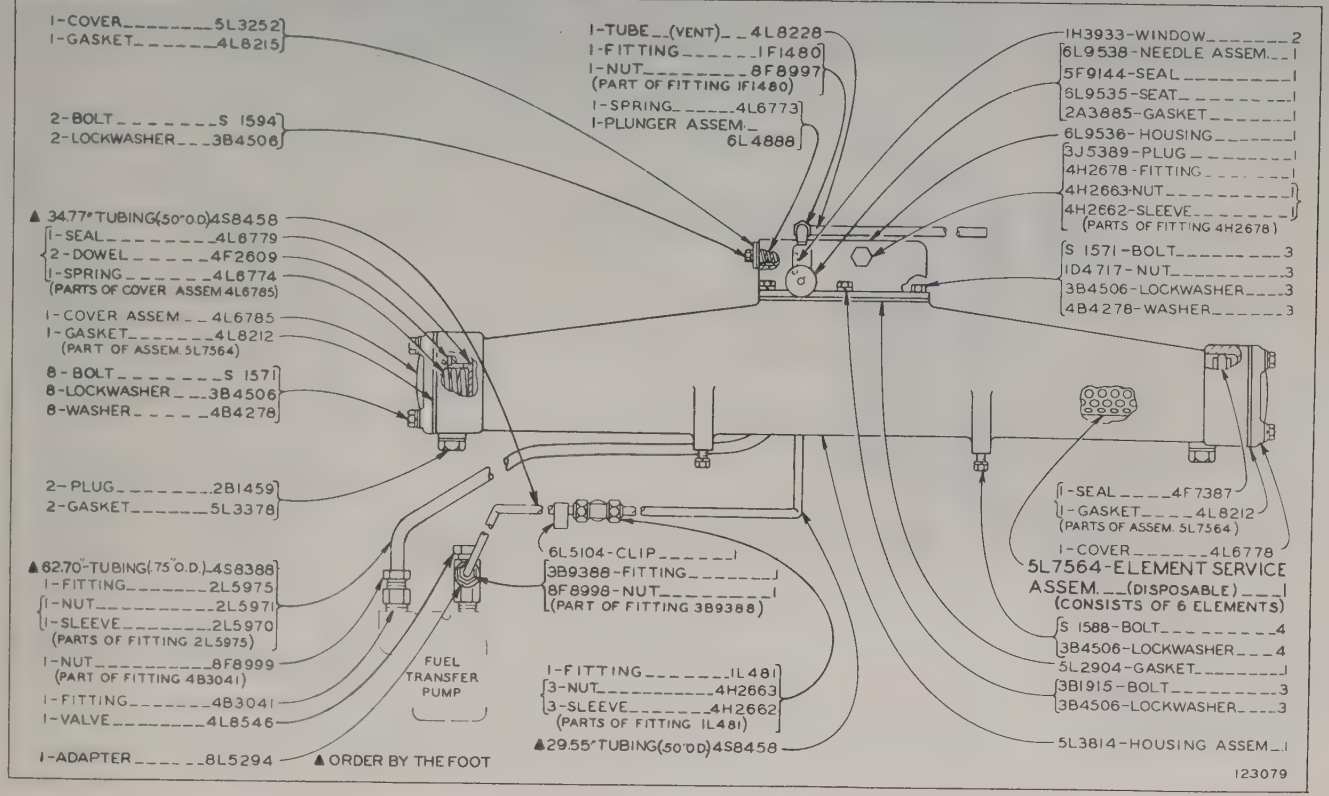


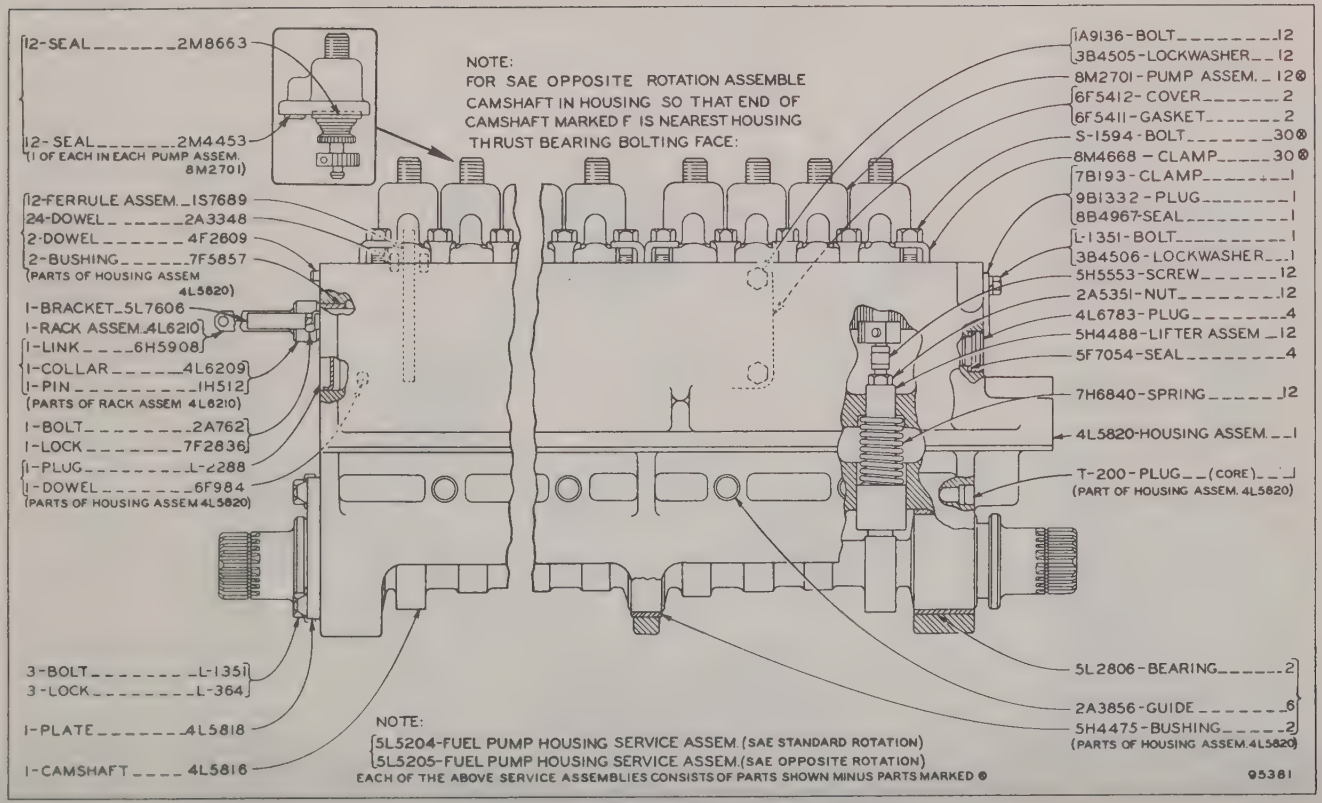

**FUEL FILTER**

Serial No. 66B1700 to 66B1790 inclusive and 75B690 to 75B867 inclusive

## FUEL FILTER

**Effective with Serial No. 66B1791-Up and 75B868-Up**



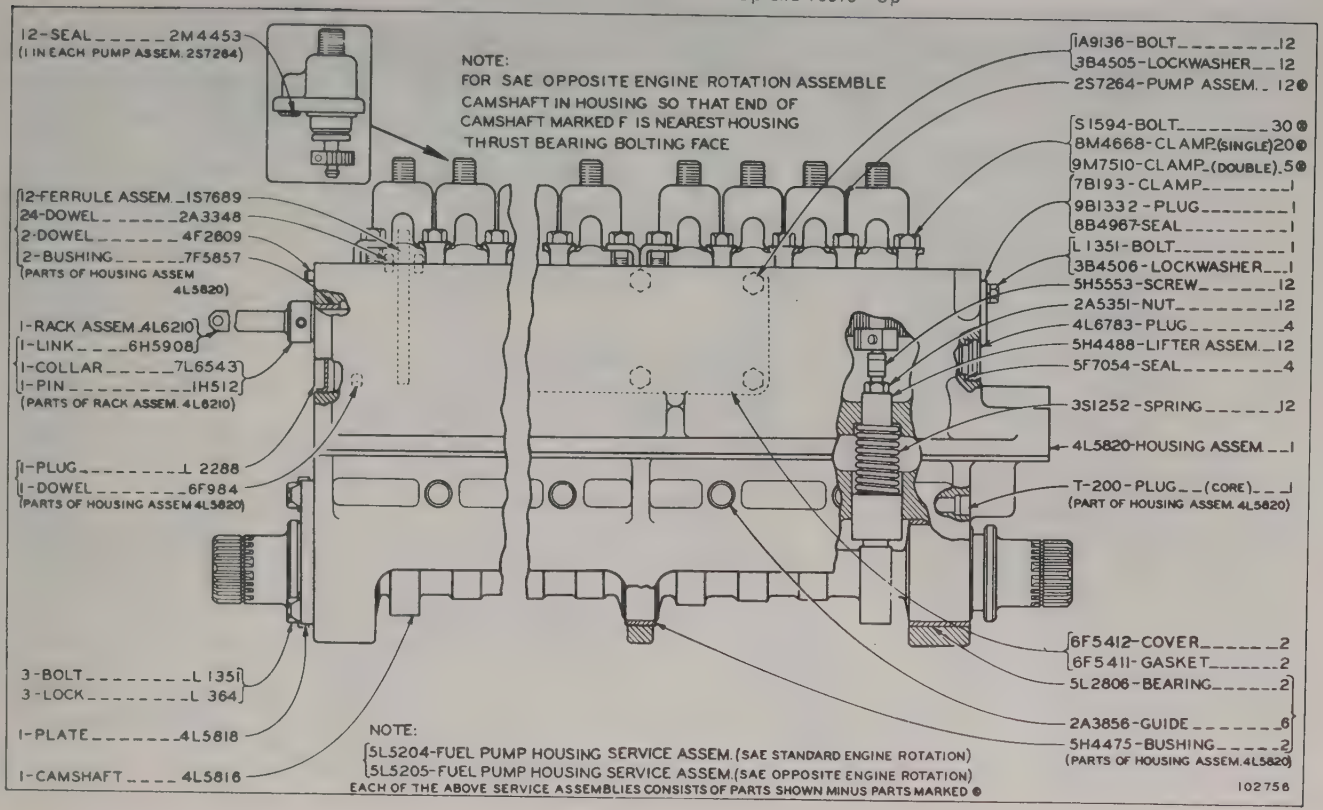


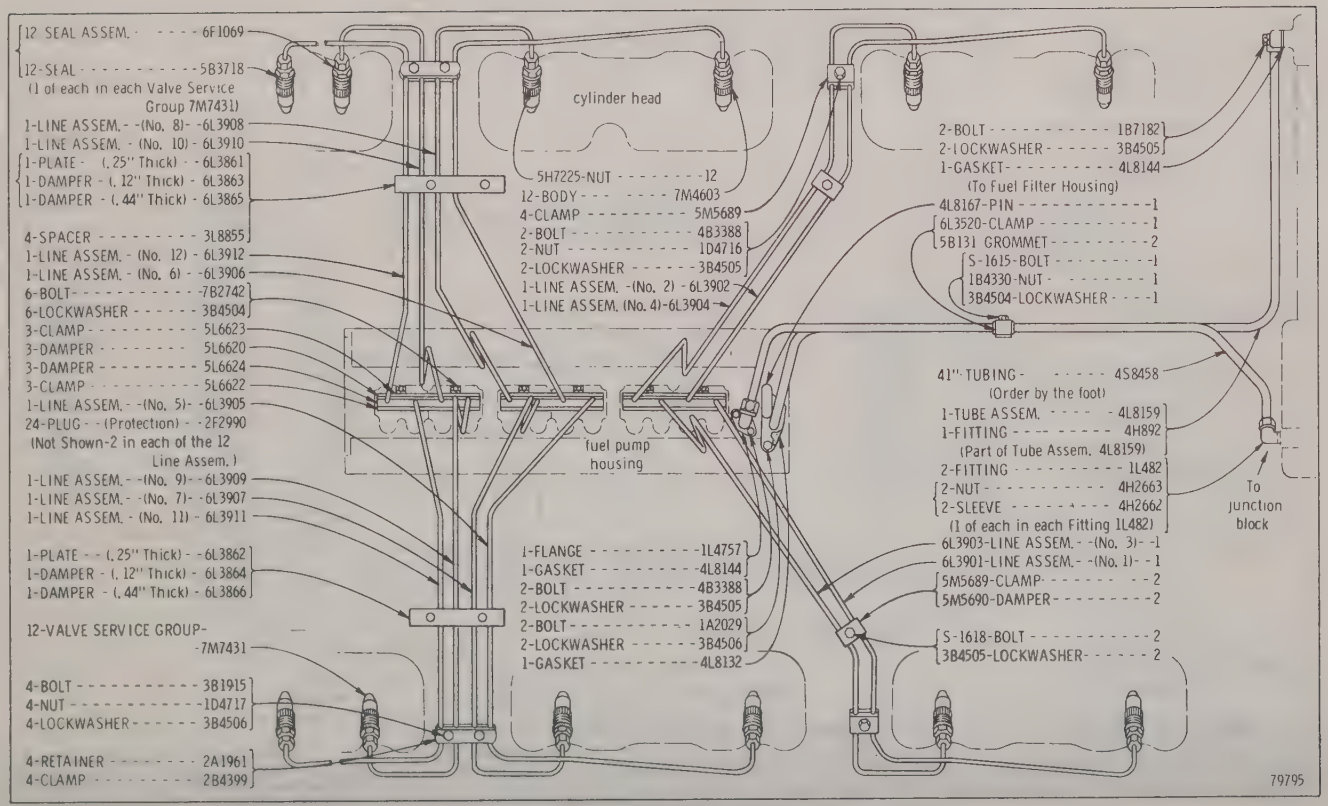

FUEL PUMP HOUSING

Serial No. 66B700 to 66B750 and 75B1 to 75B95 inclusive

# FUEL PUMP HOUSING

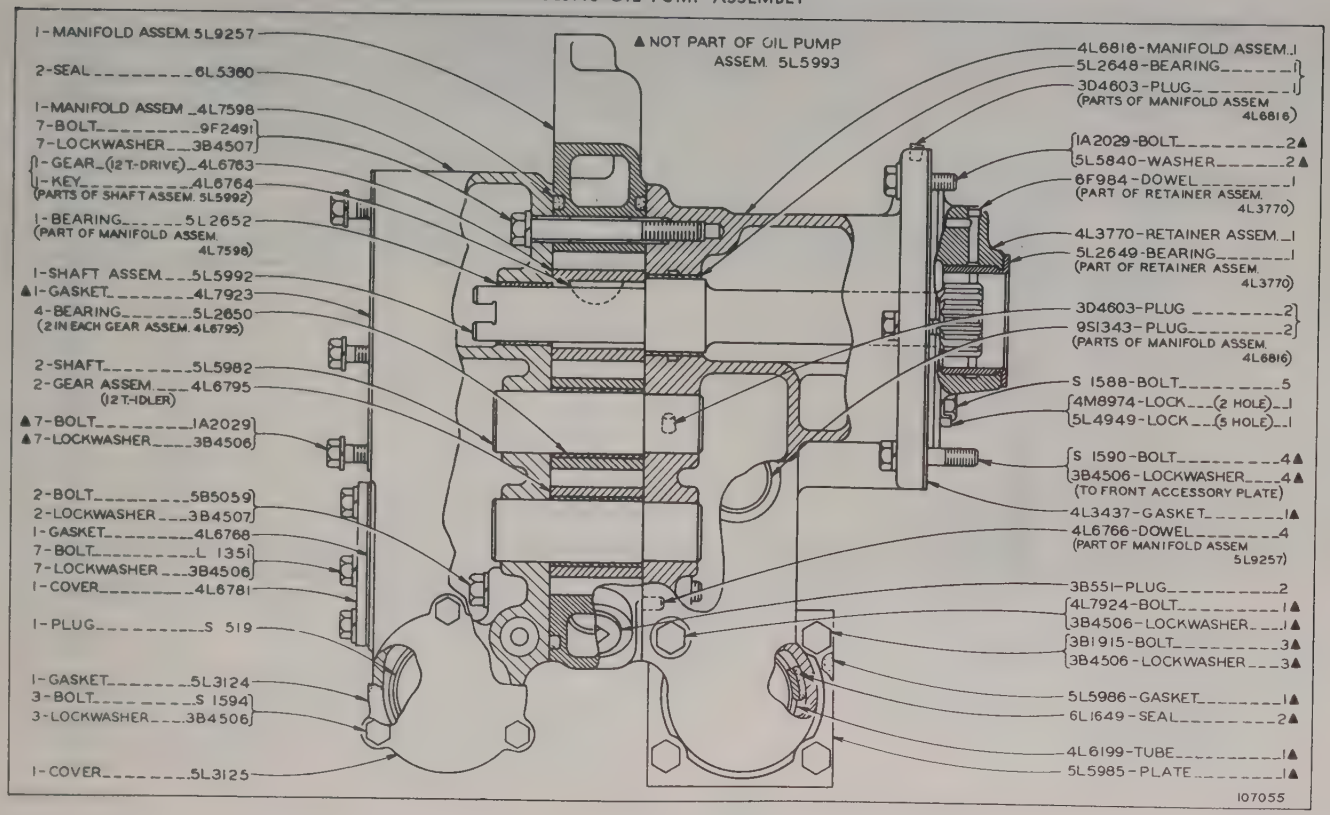
Effective with Serial No. 66B751—Up and 75B96—Up

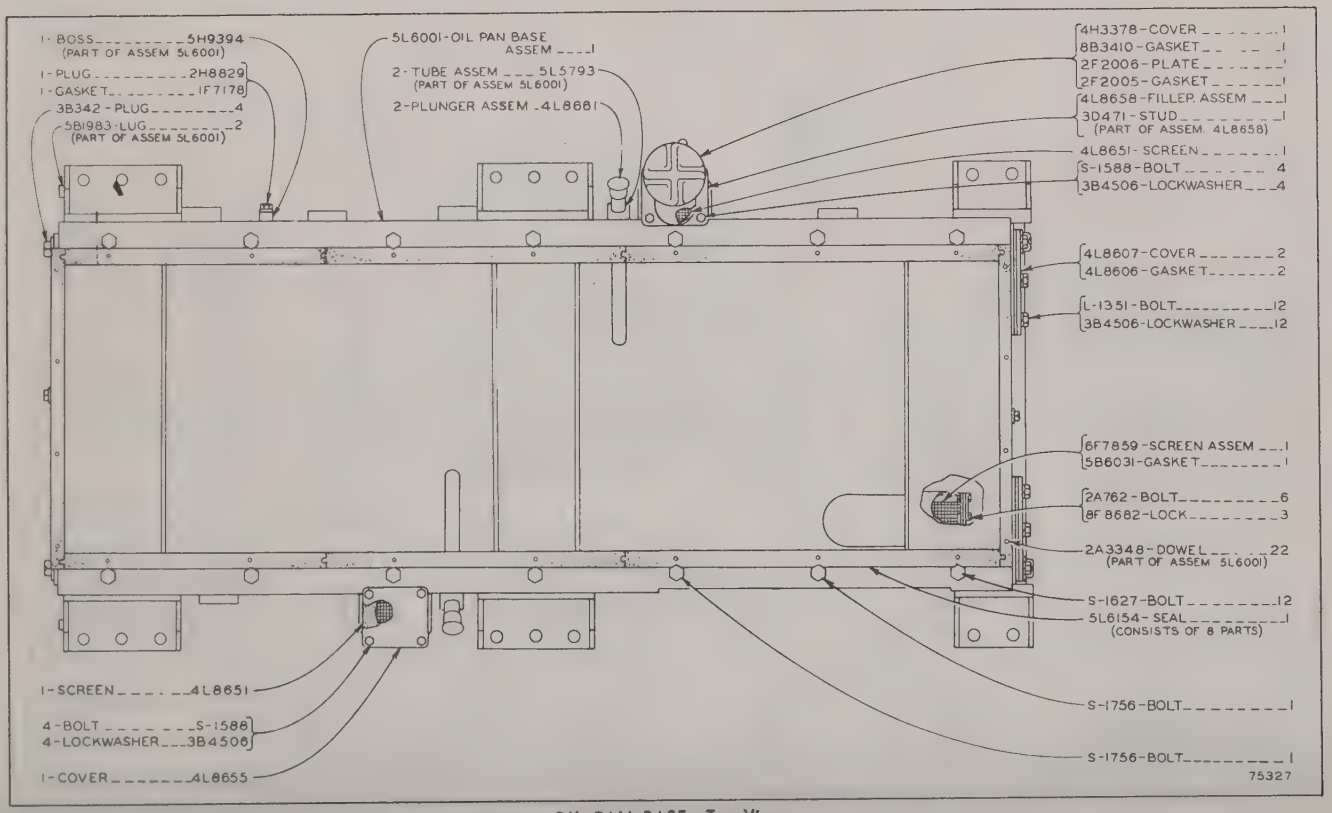





FUEL INJECTION VALVES AND LINES—Top View

## 5L5993 OIL PUMP ASSEMBLY



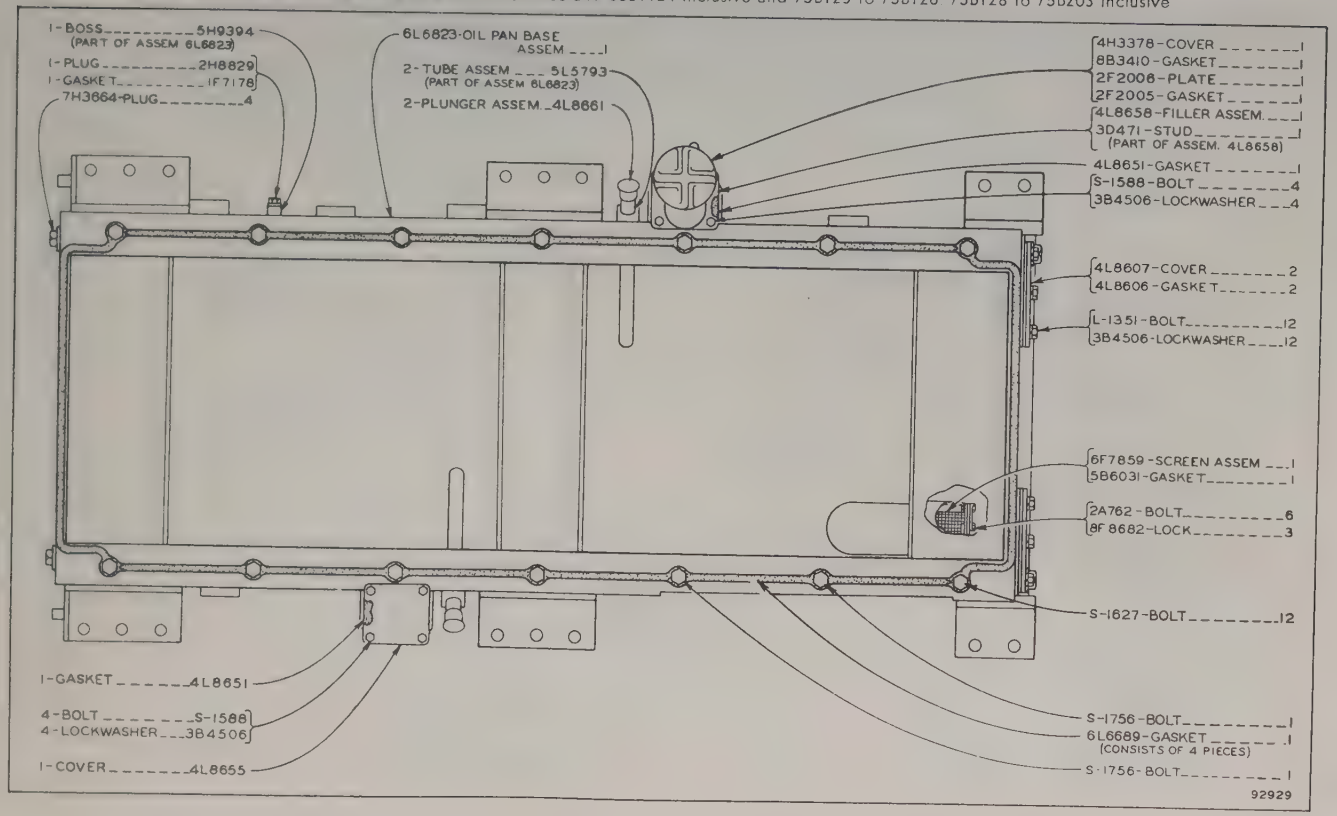


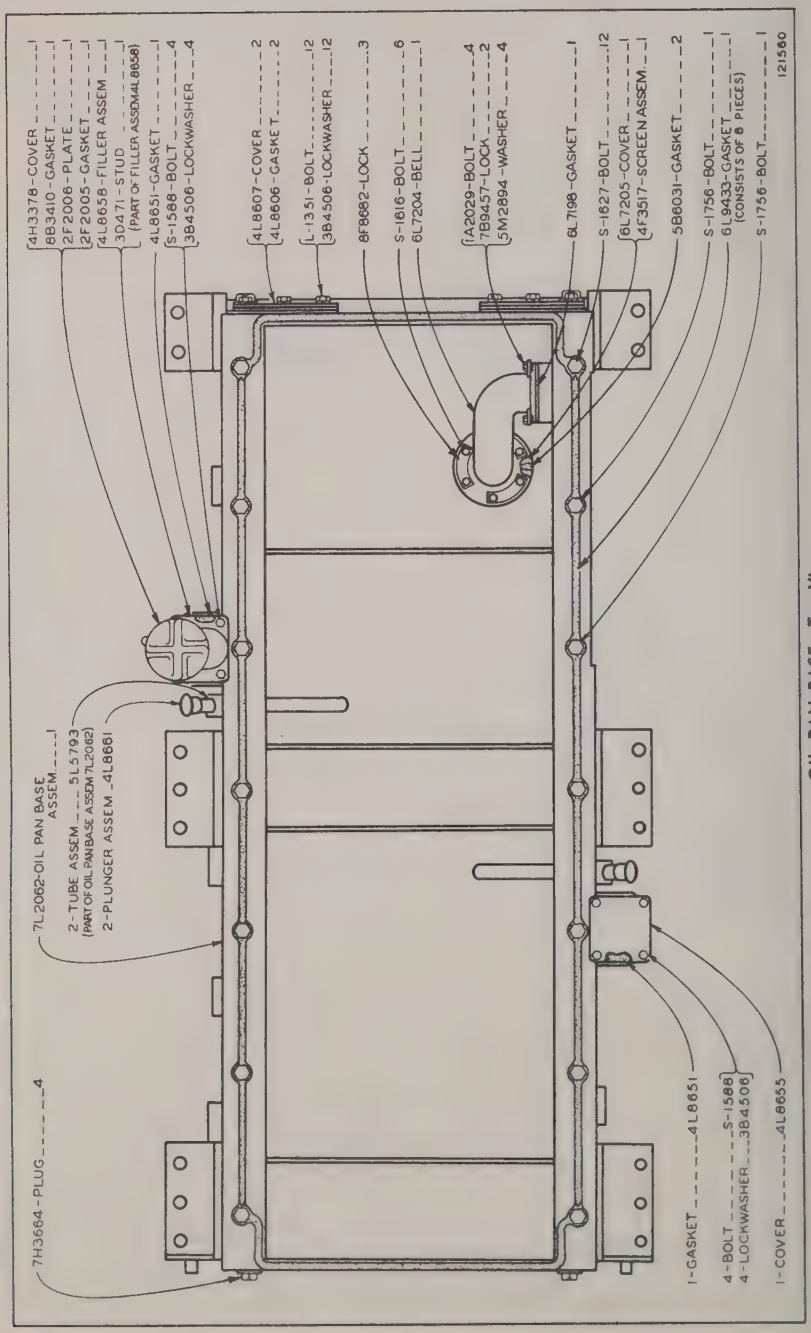

**OIL PAN BASE—Top View**

Serial No. 66B700 to 66B825 and 66B829 inclusive and 75B1 to 75B122 and 75B127 inclusive

## OIL PAN BASE—Top View

Serial No. 66B826 to 66B828. 66B830 to 66B1106 and 66B1124 inclusive and 75B123 to 75B126. 75B128 to 75B203 inclusive

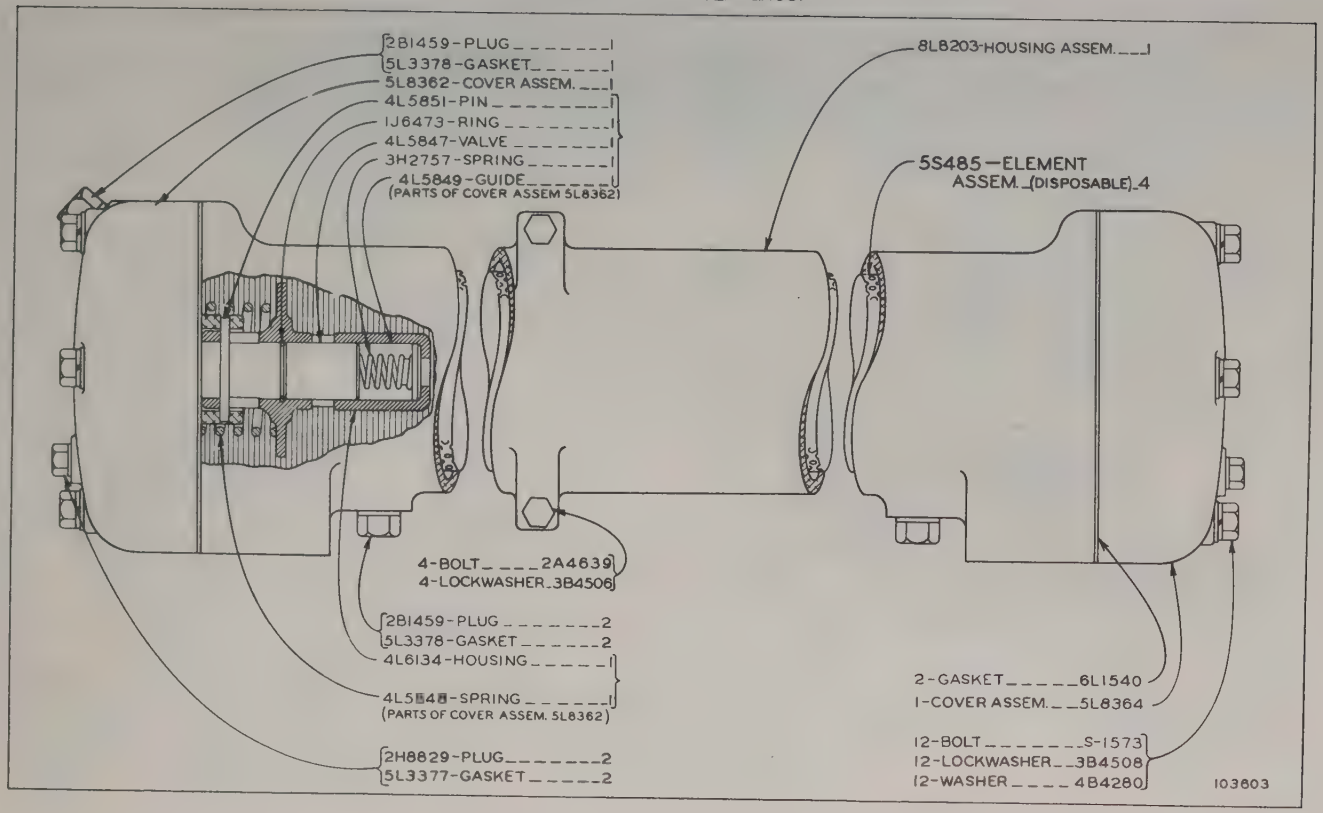


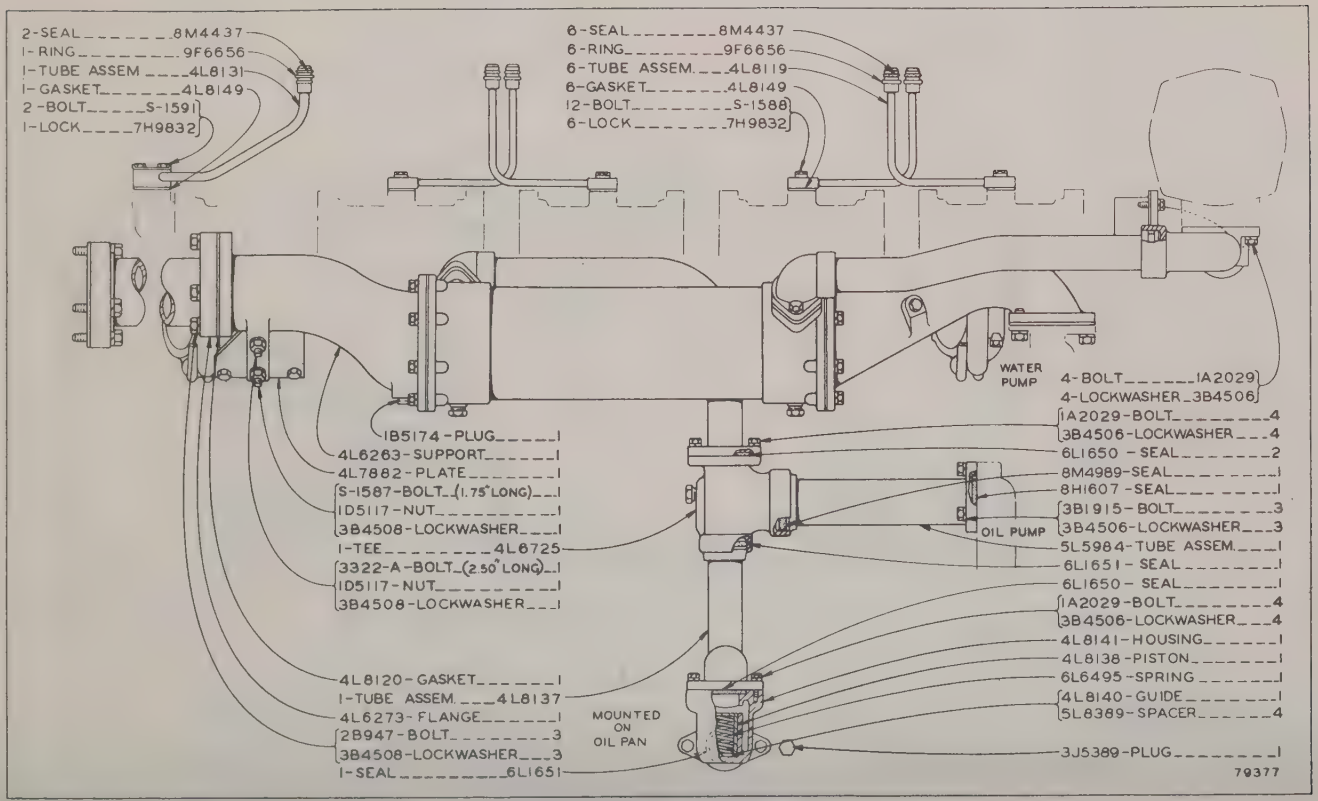



**OIL PAN BASE—Top View**

Serial No. 6681107 to 6681123 and 6681125—Up and 75B204—Up

## 6L1583 OIL FILTER GROUP





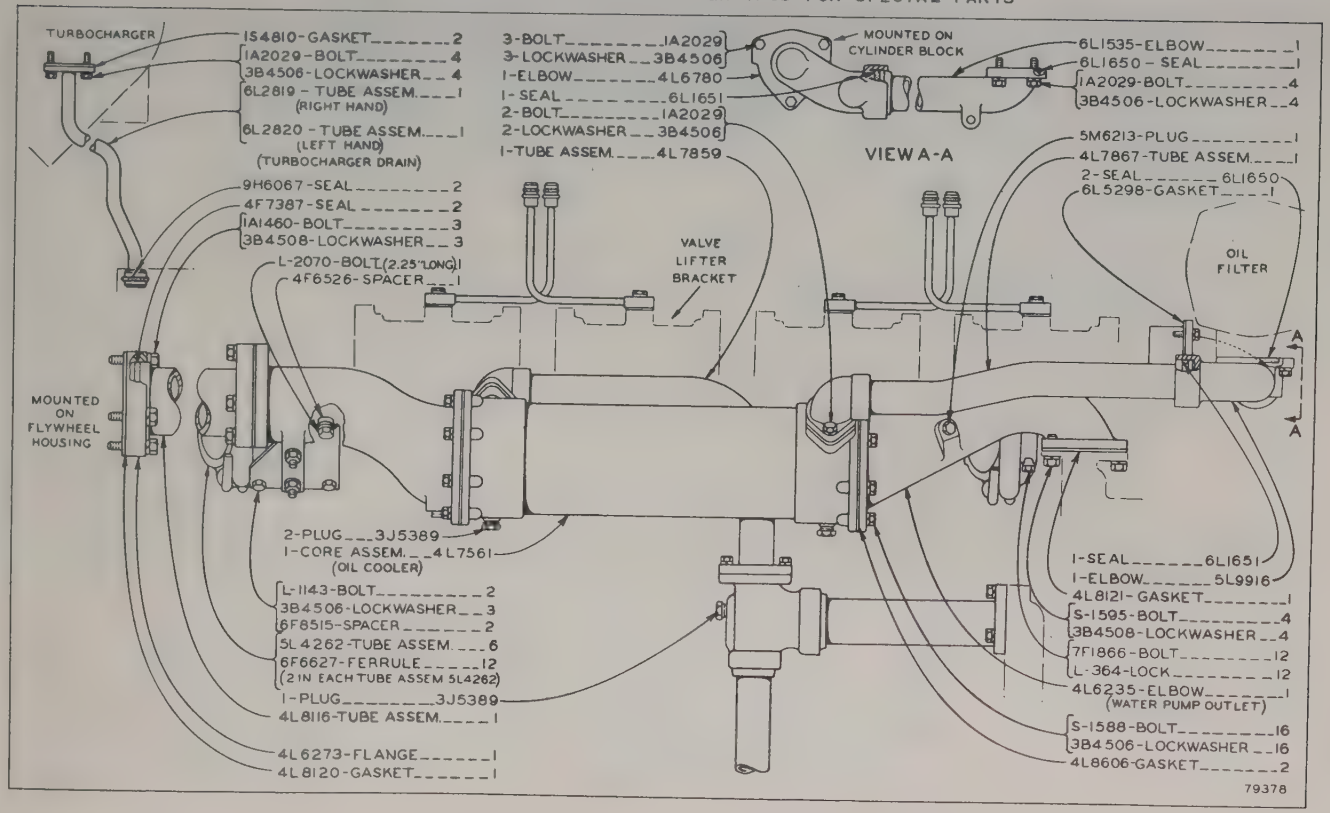

OIL COOLER AND LINES--PART 1

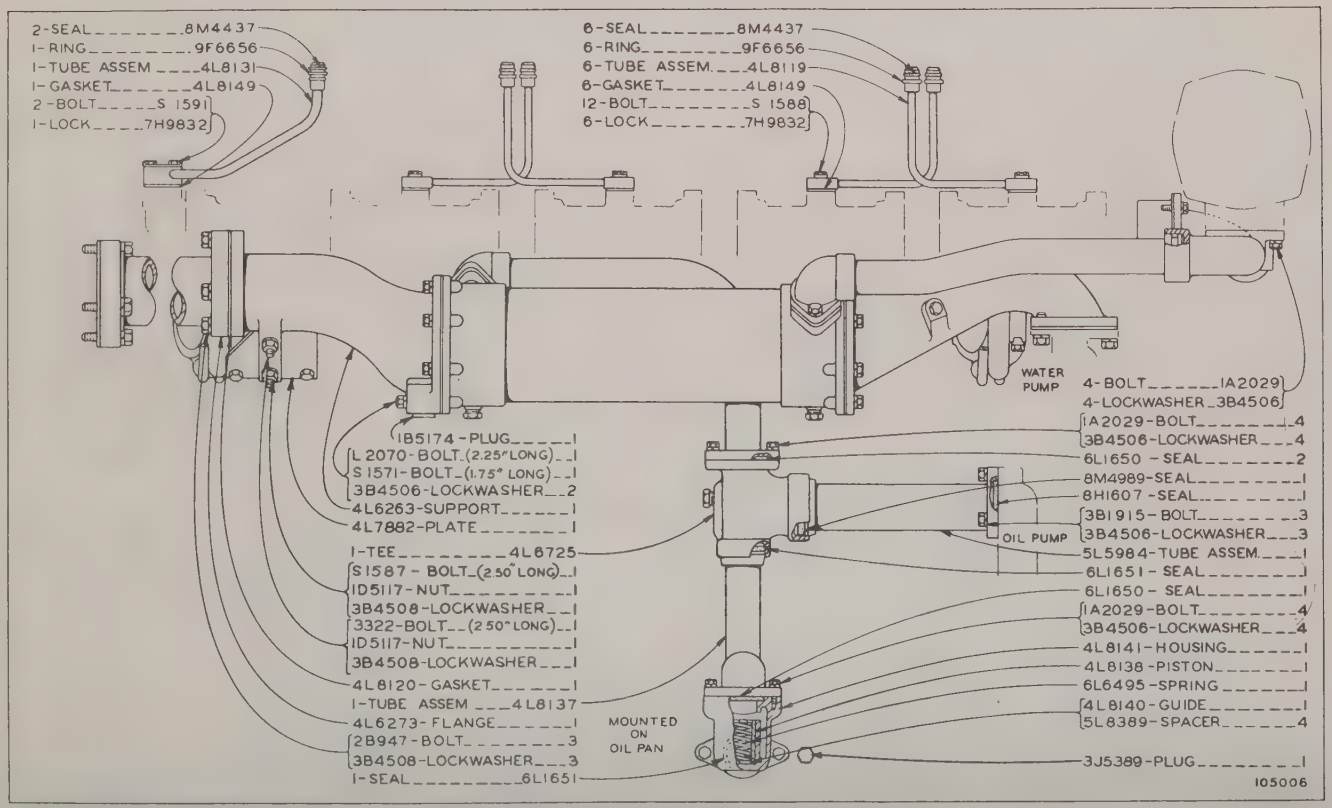
SERIAL NO. 66B700 TO 66B1414 INCLUSIVE AND 75B1 TO 75B374 INCLUSIVE

# OIL COOLER AND LINES--PART 2

SERIAL NO. 66B700 TO 66B1414 INCLUSIVE AND 75B1 TO 75B374 INCLUSIVE

REFER ALSO TO PAGES 126A THROUGH 126D FOR SPECIAL PARTS





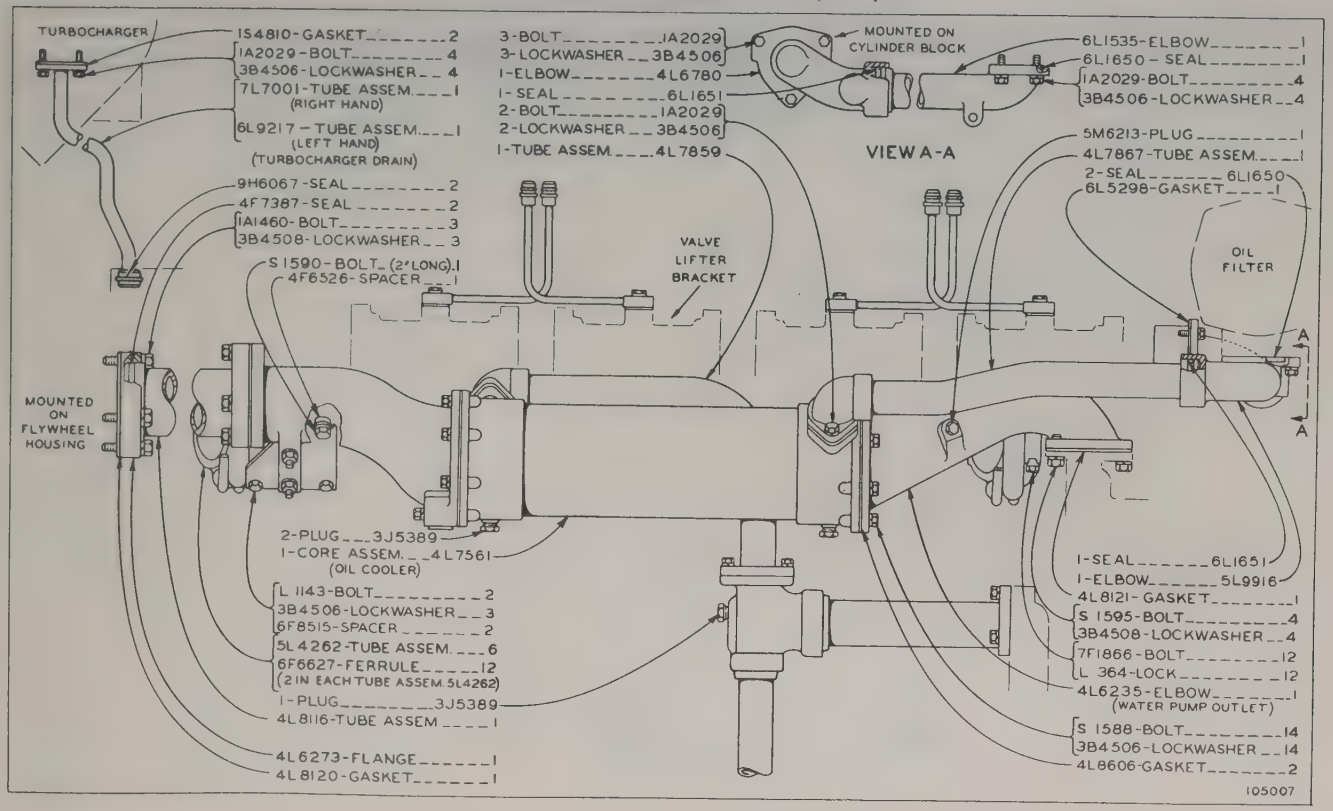

**OIL COOLER AND LINES—Part 1**

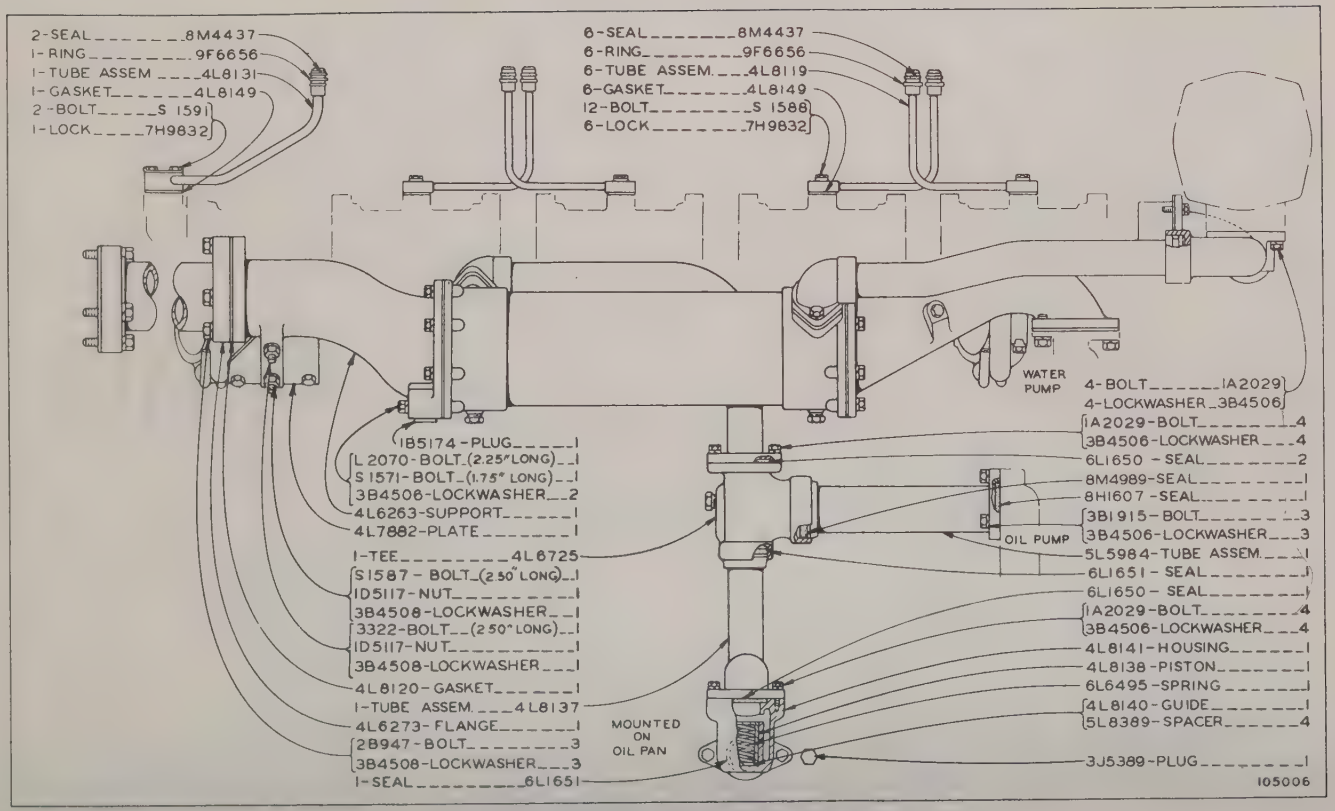
**Serial No. 66B1415 to 66B1820 inclusive and 75B375 to 75B912 inclusive**

## OIL COOLER AND LINES—Part 2

Serial No. 66B1415 to 66B1820 inclusive and 75B375 to 75B912 inclusive

Refer also to Pages 126E through 126H for special parts



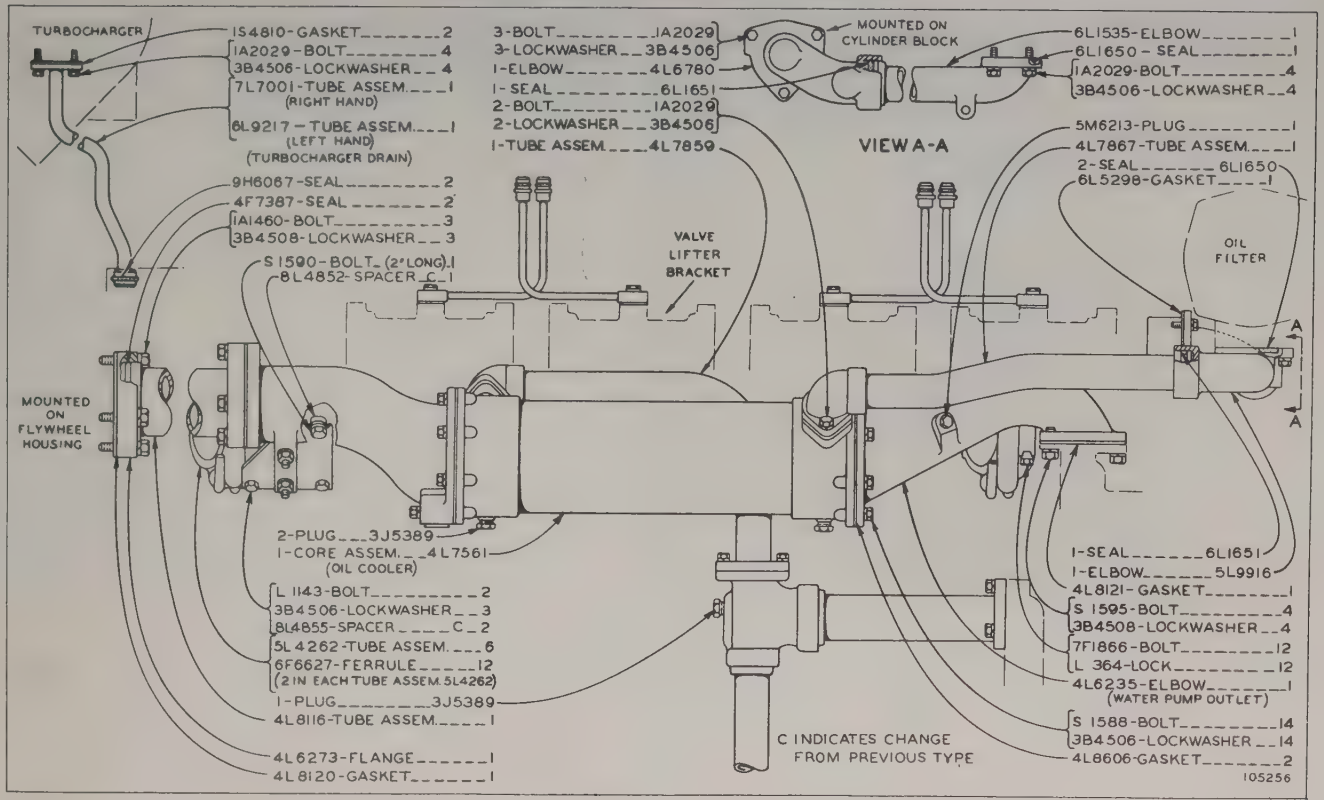



**OIL COOLER AND LINES—Part 1**
**Effective with Serial No. 66B1821-Up and 75B913-Up**

## OIL COOLER AND LINES—Part 2

Effective with Serial No. 66B1821-Up and 75B913-Up

Refer also to Pages 126E through 126H for special parts



CONSISTS OF:

| | | |
|---|---|---|
| 1 | 5N3050 | ELBOW--WATER PUMP TO OIL COOLER |
| 1 | 5N3051 | BRACKET--ELBOW TO CYLINDER BLOCK COVER |
| 2 | S1591 | BOLT--BRACKET TO ELBOW |
| 2 | 6B933 | SPACER--BRACKET TO ELBOW |
| 4 | 5M2894 | WASHER |
| 2 | L1143 | BOLT--BRACKET TO CYLINDER BLOCK COVER |
| 2 | 8L4855 | SPACER--BRACKET TO CYLINDER BLOCK COVER |
| 2 | 3L6008 | SPACER--BRACKET TO CYLINDER BLOCK COVER |
| 1 | ..... | FORM SMHS6860 |

**5N3090 ELBOW REPLACEMENT GROUP—Oil Cooler**
**Provides field replacement for 4L6235 Elbow shown on Pages 68A, 68C & 69**

| | | Consists of: | Page |
|---|---|---|---|
| 1 | | Basic Starting Engine Arrangement | 70 |
| 1 | | Compression Release Control | 76 |
| 1 | 1L7470 | Clutch Group | 81 |
| 1 | 6L2579 | Fuel System Group | 77 |
| 1 | 6L2586 | Starting Engine Installation Group | 71 |
| 1 | 6L2601 | Water Lines Group | 86 |
| 1 | 6L2668 | Transmission and Starter Pinion Group | 84 |
| | | — or — | |
| 1 | 6L2669 | Transmission and Starter Pinion Group | 82 |

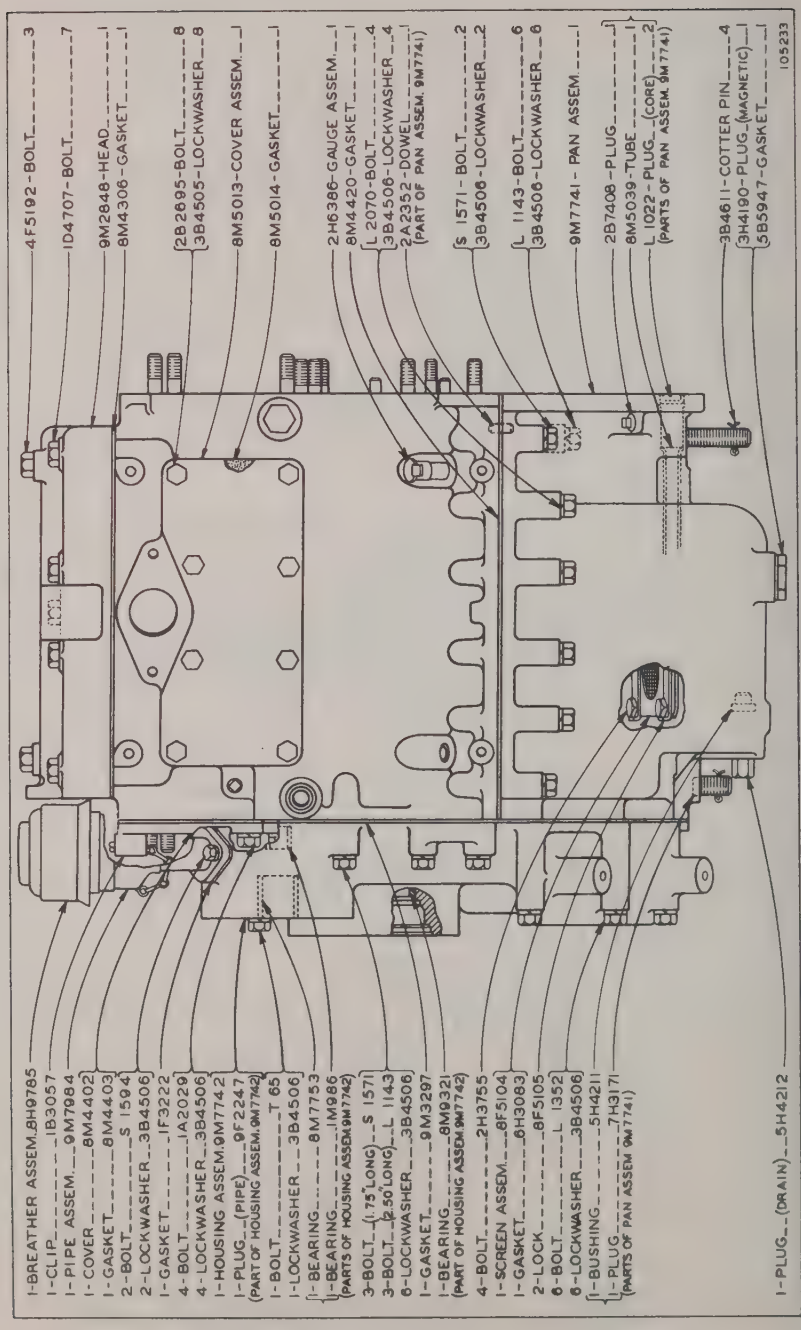
**COMPLETE GASOLINE STARTING ENGINE ARRANGEMENT**
Effective with Starting Engine Block No. F1270

| | | Consists of: | Page |
|---|---|---|---|
| 1 | | Camshaft and Governor | 74 |
| 2 | | Connecting Rod and Piston | 75 |
| 1 | | Crankshaft | 75 |
| 1 | | Cylinder Block, Cylinder Head and Valve Mechanism | 72 |
| 1 | 4L4471 | Ignition System Group | 79 |
| 1 | 6L2529 | Carburetor and Air Transfer Pipe Group | 78 |
| 1 | 9M1713 | Oil Pump Assembly | 76 |
| 1 | 9M7894 | Manual Starting Crank Group | 87 |

**BASIC STARTING ENGINE ARRANGEMENT**
Effective with Starting Engine Block No. F1270
Part of Complete Gasoline Starting Engine Arrangement

| | | |
|---|---|---|
| 6L2586 | | STARTING ENGINE INSTALLATION GROUP |
| | | CONSISTS OF: |
| 4 | 1A2029 | BOLT-UPPER REAR BRACKET TO BRACKET |
| 1 | 1A5822 | BOLT-STRAP TO MANIFOLD |
| 1 | 1B3057 | CLIP-FUEL TUBE |
| 8 | 1B4203 | NUT-EXHAUST PIPE AND BRACKET TO BLOCK |
| 4 | 1B4330 | NUT-AIR CLEANER ADAPTER TO PIPE ASSEMBLY |
| 1 | 2B9815 | GASKET-ADAPTER TO PIPE ASSEMBLY |
| 4 | 3B4504 | LOCKWASHER-1/4" |
| 14 | 3B4506 | LOCKWASHER-3/8" |
| 12 | 3B4508 | LOCKWASHER-1/2" |
| 3 | 3B4510 | LOCKWASHER-5/8" |
| 4 | 4B1282 | SCREW-AIR CLEANER ADAPTER TO PIPE ASSEMBLY |
| 3 | 4B4278 | WASHER-UPPER REAR BRACKET TO BRACKET |
| 15 | 4B4280 | WASHER-17/32" |
| 1 | 5B494 | GROMMET-CLIP TO TUBE |
| 4 | 1D4717 | NUT-UPPER REAR BRACKET TO BRACKET |
| 2 | 6F7030 | BOLT-BRACKET ASSEMBLY TO TANK |
| 1 | 3H761 | COVER-DIESEL FLYWHEEL HOUSING ELECTRIC STARTING ENGINE |
| 4 | 2L810 | SHIM |
| 2 | 2L889 | SHIM |
| 2 | 3L6836 | SPACER-BRACKET TO DIESEL WATER PASSAGE COVER |
| 15 | 3L7043 | SHIM-FRONT SUPPORT |
| 1 | 5L2210 | SUPPORT-STARTING ENGINE-FRONT |
| 1 | 5L2211 | SUPPORT-LOWER REAR |
| 2 | 5L4194 | SPACER-MAIN BEARING STUDS TO NUTS |
| 1 | 5L5802 | PLATE-AIR CLEANER TO PIPE ASSEMBLY |
| 1 | 5L7619 | BRACKET-STARTING ENGINE MOUNTING-REAR |
| 3 | 5L7711 | SHIM-REAR SUPPORT TO DIESEL OIL PAN |
| 1 | 6L2578 | TUBE ASSEMBLY-EXHAUST PIPE |
| 1 | 6L2604 | ELBOW ASSEMBLY-MANIFOLD WATER (EFF. W/SERIAL NO. 66B700-UP) |
| | | -OR- |
| 1 | 6L3338 | CONNECTOR ASSEMBLY-MANIFOLD WATER (EFF. W/SERIAL NO. 75B1-UP) |
| 1 | 6L2795 | BRACKET-STARTING ENGINE-UPPER REAR |
| 1 | 6L2796 | SUPPORT-STARTING ENGINE-FRONT |
| 1 | 7L7547 | BRACKET ASSEMBLY-CLUTCH HOUSING TO FUEL TANK |
| 1 | 6L9647 | STRAP-EXHAUST PIPE TO INTAKE MANIFOLD |
| 1 | 7M7072 | CASE ASSEMBLY-AIR CLEANER |
| 1 | 8M2325 | CLAMP-TUBE TO TUBE |
| 1 | 8M3120 | ELEMENT-AIR CLEANER |
| 1 | 8M3271 | HAND CRANK ASSEMBLY |
| 2 | 8M4418 | GASKET-STARTING ENGINE BLOCK TO EXHAUST PIPE AND BRACKET |
| 1 | 9M6475 | TUBE-72" LONG-STARTING ENGINE FUEL |
| | | -OR- |
| 1 | 4S8386 | TUBE-28" LONG-TANK TO CARBURETOR |
| 2 | L2070 | BOLT-BRACKET TO DIESEL WATER PASSAGE COVER |
| 8 | S1587 | BOLT-SUPPORTS TO DIESEL OIL PAN & SUPPORT TO STARTING ENGINE |
| 10 | S1588 | BOLT-WATER PASSAGE COVER TO BLOCK |
| 4 | S1595 | BOLT |
| 3 | S1608 | BOLT-SUPPORT TO STARTING ENGINE TIMING GEAR HOUSING |
| 3 | S1624 | BOLT-ELECTRIC STARTING FLANGE COVER |

**6L2586 STARTING ENGINE INSTALLATION GROUP**
**Effective with Starting Engine Block No. F1270**
**Part of Complete Gasoline Starting Engine Arrangement**




CYLINDER BLOCK, CYLINDER HEAD AND VALVE MECHANISM—Part One

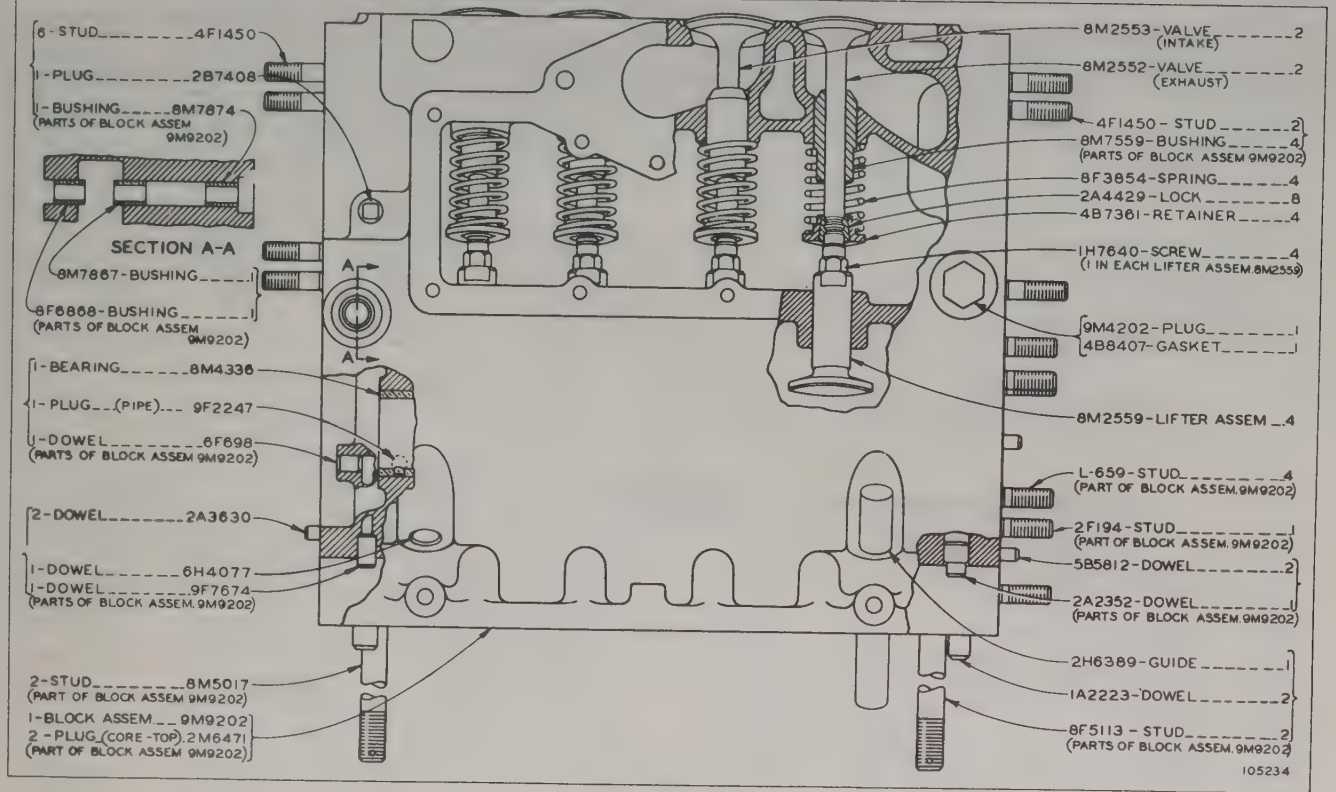
Effective with Starting Engine Block No. F1270

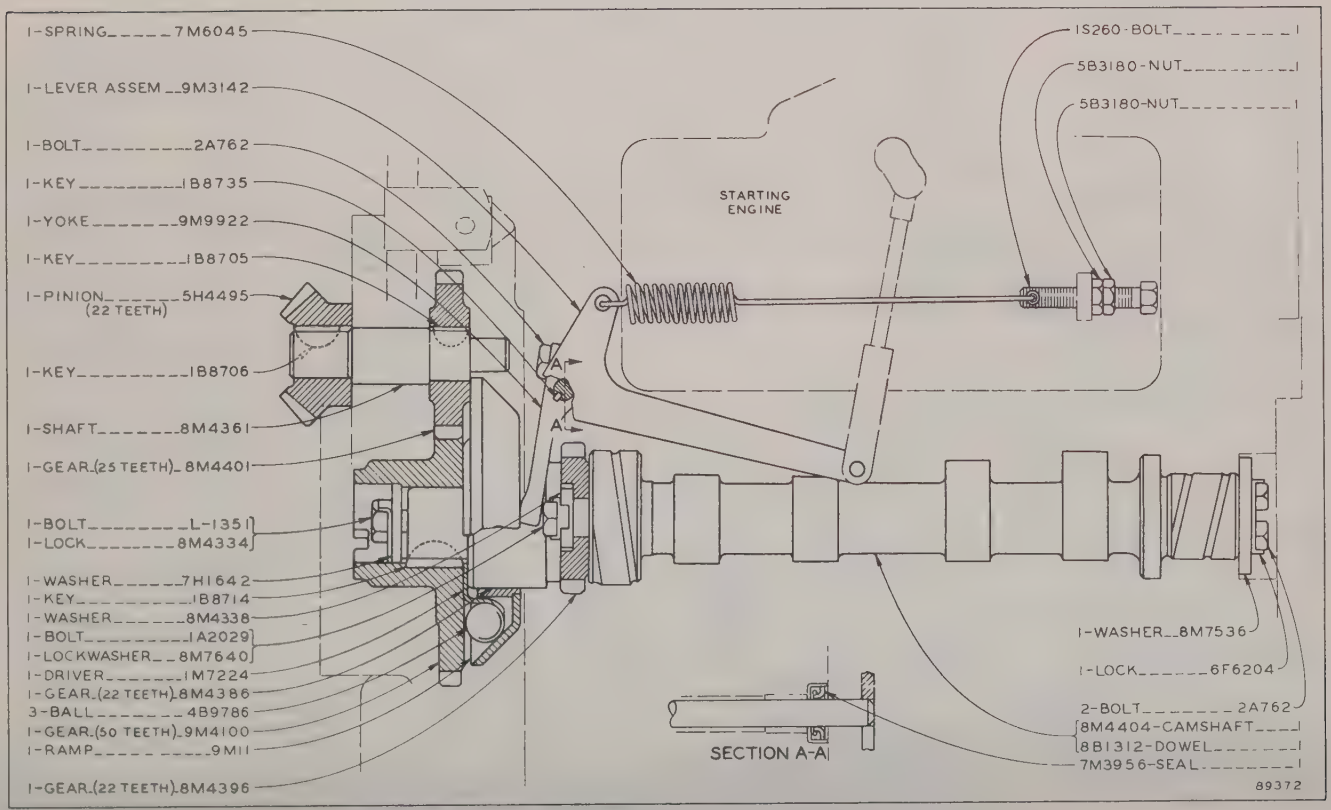
Part of Basic Starting Engine Arrangement listed on Page 70

## CYLINDER BLOCK, CYLINDER HEAD AND VALVE MECHANISM—Part Two

Effective with Starting Engine Block No. F1270

Part of Basic Starting Engine Arrangement listed on Page 70

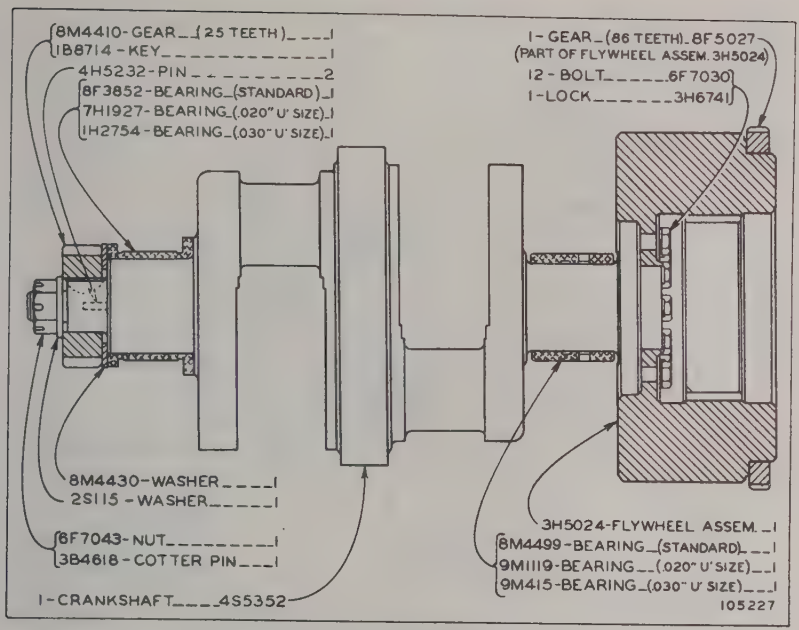




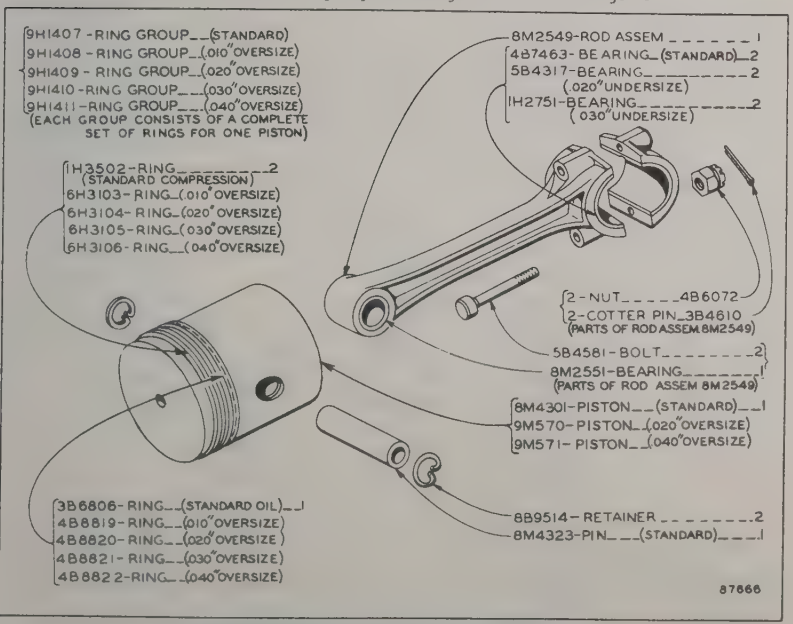

**CAMSHAFT AND GOVERNOR**

Effective with Starting Engine Block No. F1270

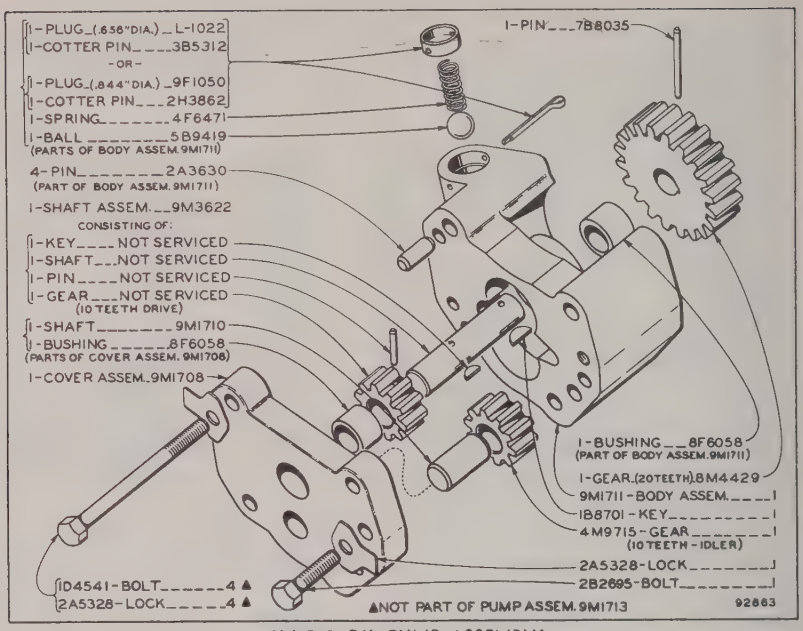
Part of Basic Starting Engine Arrangement listed on Page 70



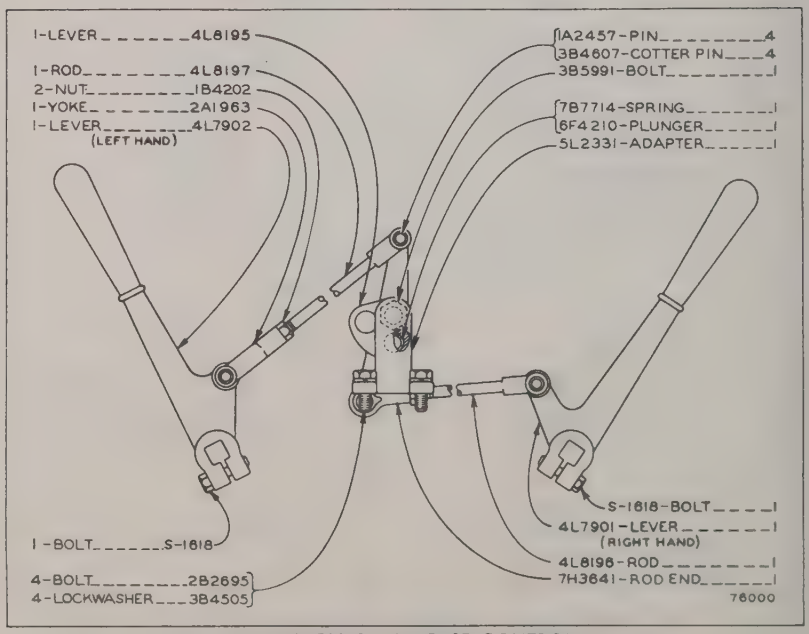

CRANKSHAFT
Effective with Starting Engine Block No. F1270
Part of Basic Starting Engine Arrangement listed on Page 70



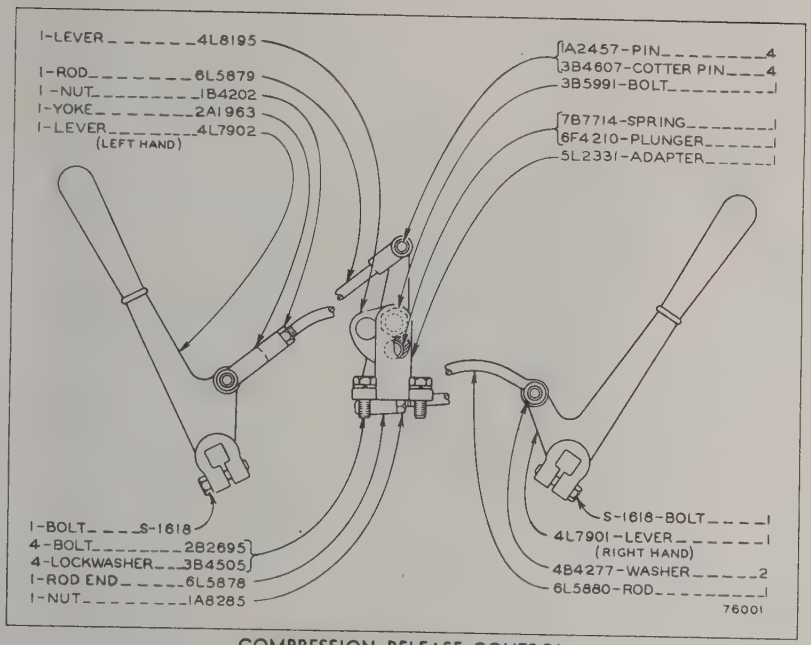

CONNECTING ROD AND PISTON—2 Required
Effective with Starting Engine Block No. F1270
Part of Basic Starting Engine Arrangement listed on Page 70



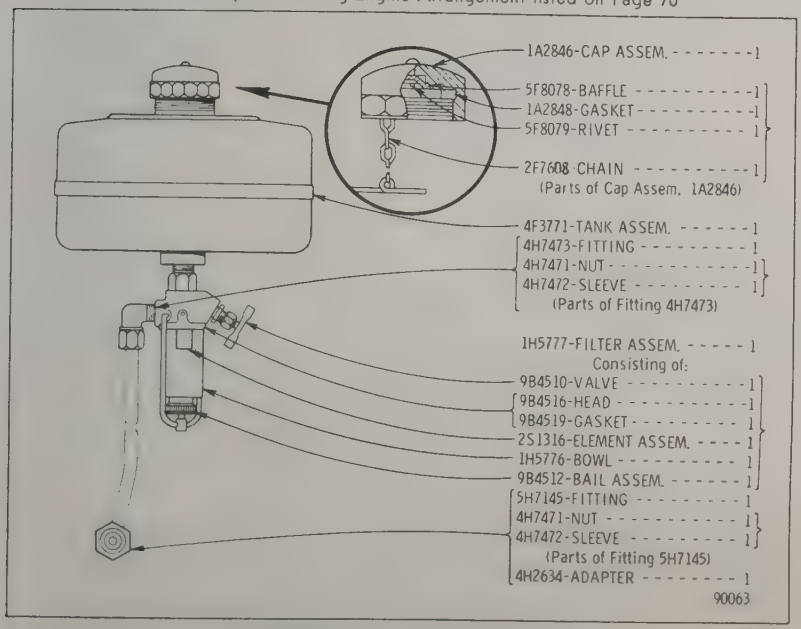

9MI713 OIL PUMP ASSEMBLY
Effective with Starting Engine Block No. F1270
Part of Basic Starting Engine Arrangement listed on Page 70



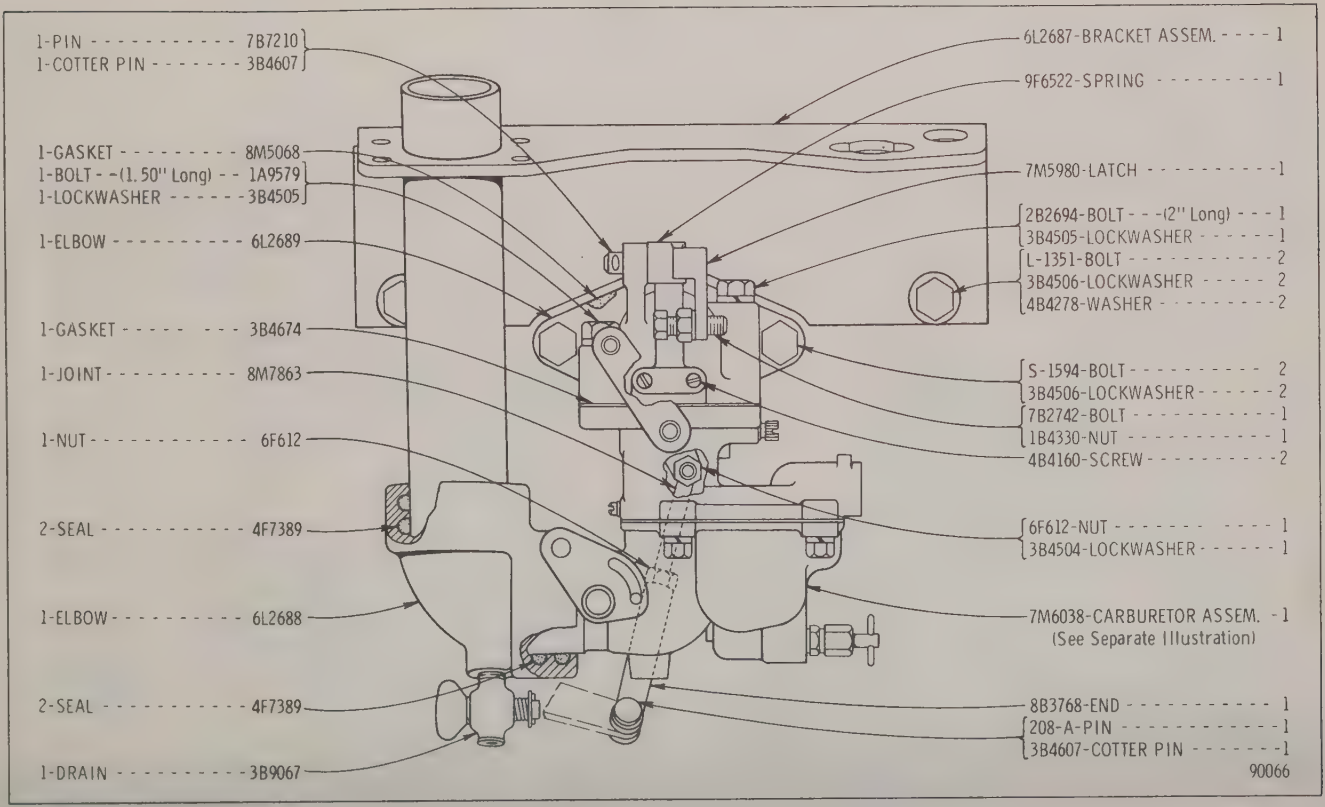

COMPRESSION RELEASE CONTROL
Serial No. 66B700 to 66B767 inclusive and 75B1 to 75B95 inclusive
Part of Complete Starting Engine Arrangement listed on Page 70



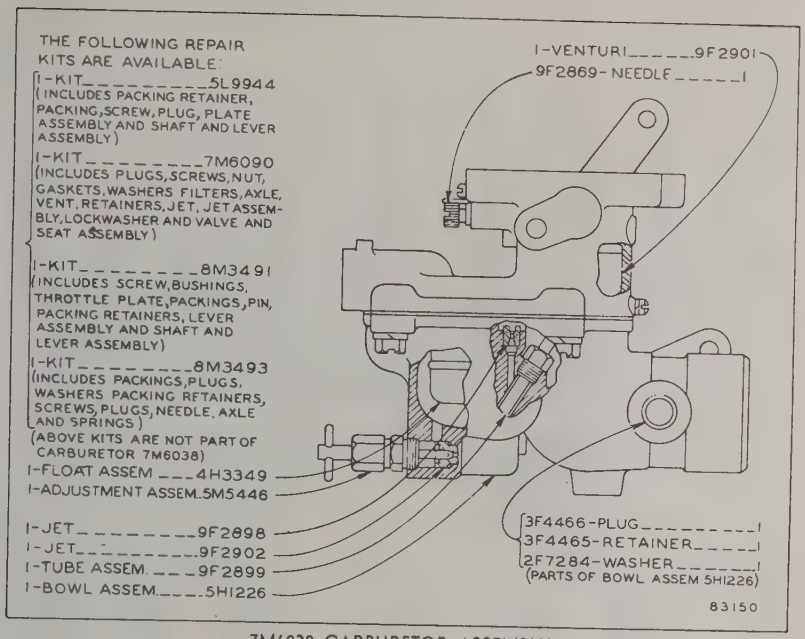

**COMPRESSION RELEASE CONTROL**
Effective with Serial No. 66B768—Up and 75B96—Up
Part of Complete Starting Engine Arrangement listed on Page 70



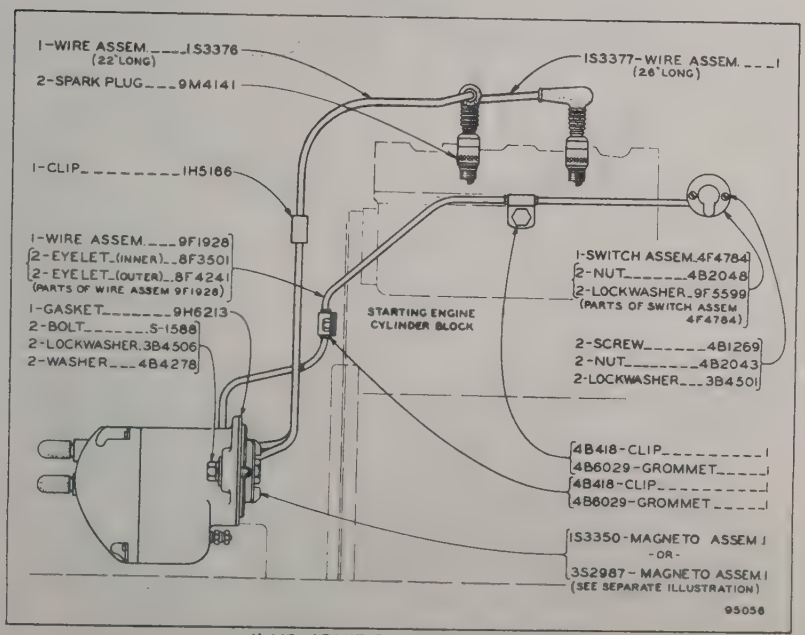

**6L2579 FUEL SYSTEM GROUP**
Effective with Starting Engine Block No. F1270
Part of Complete Gasoline Starting Engine Arrangement listed on Page 70



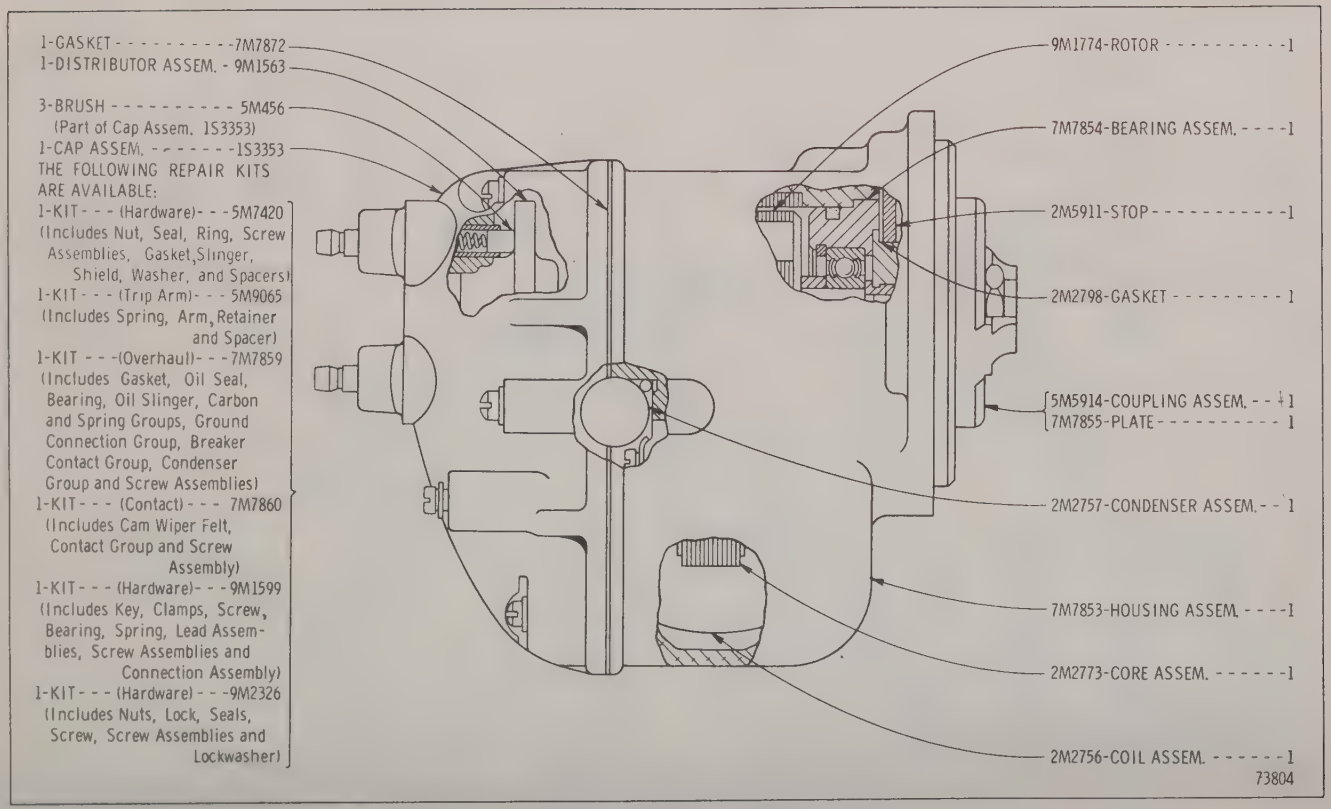

**6L2529 CARBURETOR AND AIR TRANSFER PIPE GROUP**
Effective with Starting Engine Block No. F1270
Part of Basic Starting Engine Arrangement listed on Page 70




**7M6038 CARBURETOR ASSEMBLY**
Part of 6L2529 Carburetor and Air Transfer Pipe Group




**4L4471 IGNITION SYSTEM GROUP**
Effective with Starting Engine Block No. F1270
Part of Basic Starting Engine Arrangement listed on Page 70
1S3350 and 3S2987 Magneto Assembly parts are shown on Page 80 and on reverse side

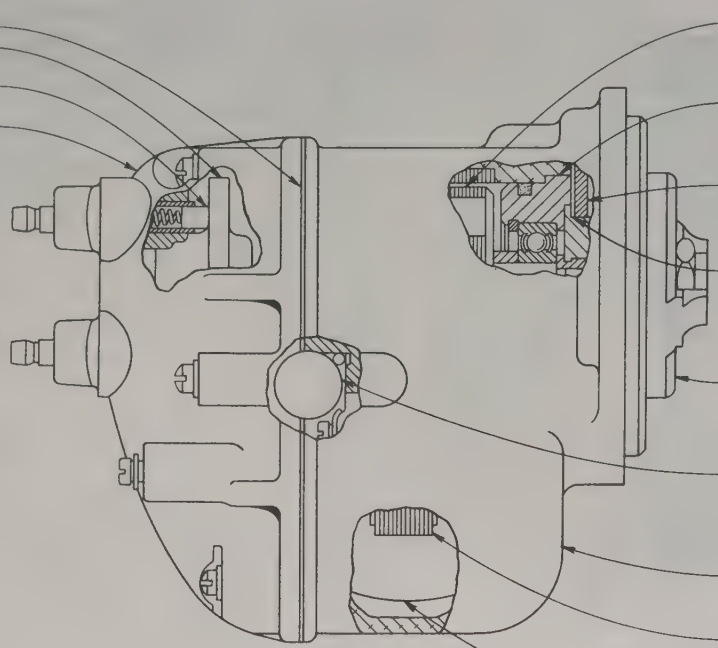



**1S3350 MAGNETO ASSEMBLY**

Part of 4L4471 Ignition System Group shown on Page 79

## 3S2987 MAGNETO ASSEMBLY

Part of 4L4471 Ignition System Group shown on Page 79

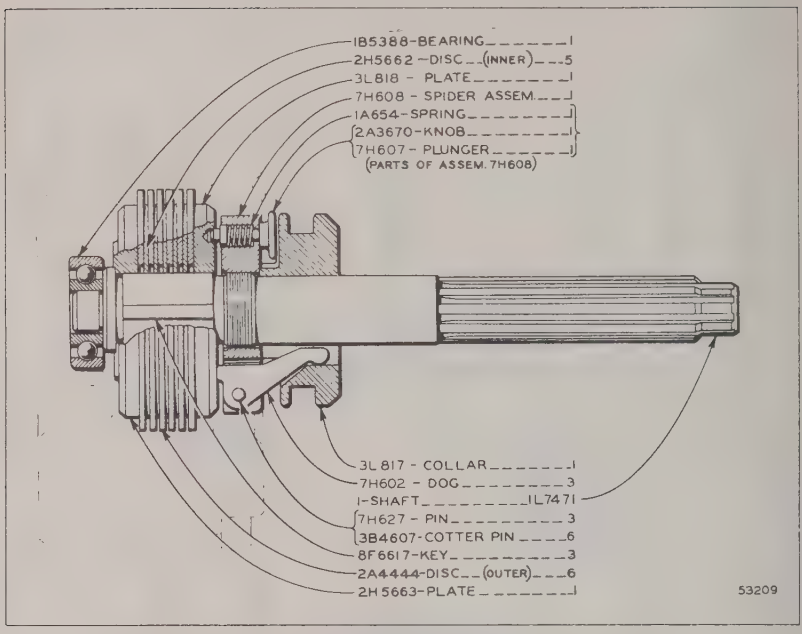


1-GASKET - - - - - - - - - - 7M7872
1-DISTRIBUTOR ASSEM. - 9M1563

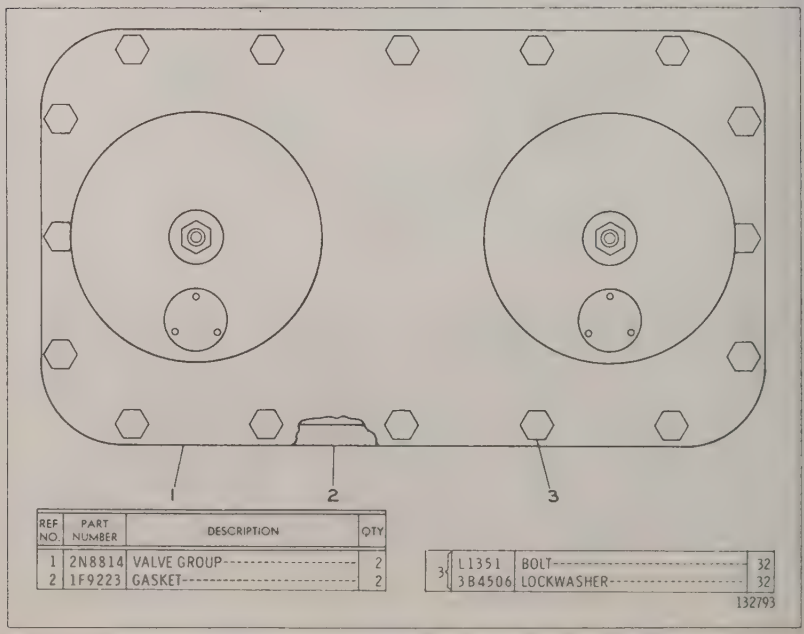
3-BRUSH - - - - - - - - - - 5M456
(Part of Cap Assem. 1S3353)
1-CAP ASSEM. - - - - - - - 1S3353
THE FOLLOWING REPAIR KITS ARE AVAILABLE:
1-KIT - - - (Hardware) - - - 5M7420
(Includes Nut, Seal, Ring, Screw Assemblies, Gasket, Slinger, Shield, Washer and Spacers)
1-KIT - - - (Trip Arm) - - - 5M9065
(Includes Spring, Arm, Retainer and Spacer)
1-KIT - - - (Overhaul) - - - 7M7859
(Includes Gasket, Oil Seal, Bearing, Oil Slinger, Carbon and Spring Groups, Ground Connection Group, Breaker Contact Group, Condenser Group and Screw Assemblies)
1-KIT - - - (Contact) - - - 7M7860
(Includes Cam Wiper Felt, Contact Group and Screw Assembly)
1-KIT - - - (Hardware) - - - 9M1599
(Includes Key, Clamps, Screw, Bearing, Spring, Lead Assemblies, Screw Assemblies and Connection Assembly)
1-KIT - - - (Hardware) - - - 9M2326
(Includes Nuts, Lock, Seals, Screw, Screw Assemblies and Lockwasher)

9M1774-ROTOR - - - - - - - - - - 1
7M7854-BEARING ASSEM. - - - - 1
2M5911-STOP - - - - - - - - - - - 1
2M2798-GASKET - - - - - - - - - 1
3S5525-COUPLING ASSEM. - - - 1
3S5524-PLATE - - - (Lock) - - - 1
2M2757-CONDENSER ASSEM. - - 1
7M7853-HOUSING ASSEM. - - - - 1
2M2773-CORE ASSEM. - - - - - - 1
2M2756-COIL ASSEM. - - - - - - 1

93685



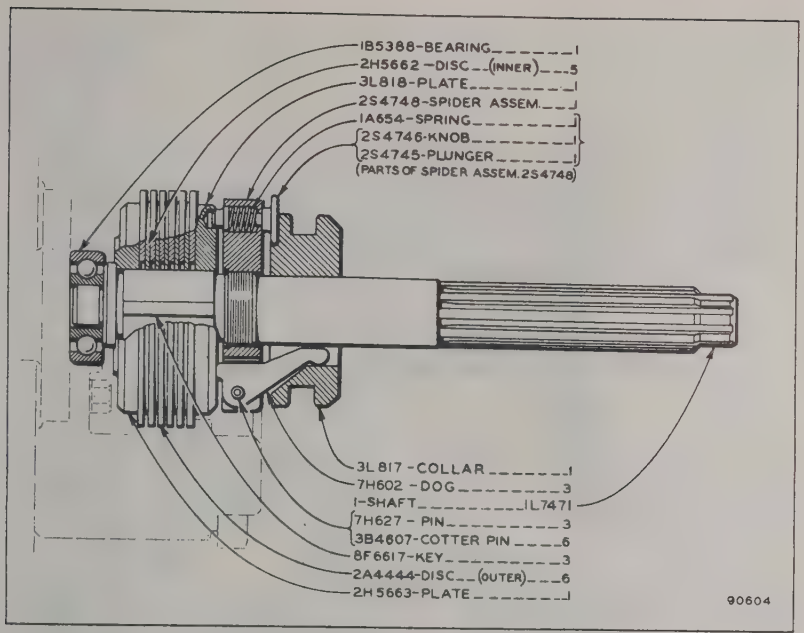

1L7470 CLUTCH GROUP
Serial No. 66B700 to 66B962 inclusive and 75B1 to 75B162 inclusive
Part of Complete Gasoline Starting Engine Arrangement listed on Page 70



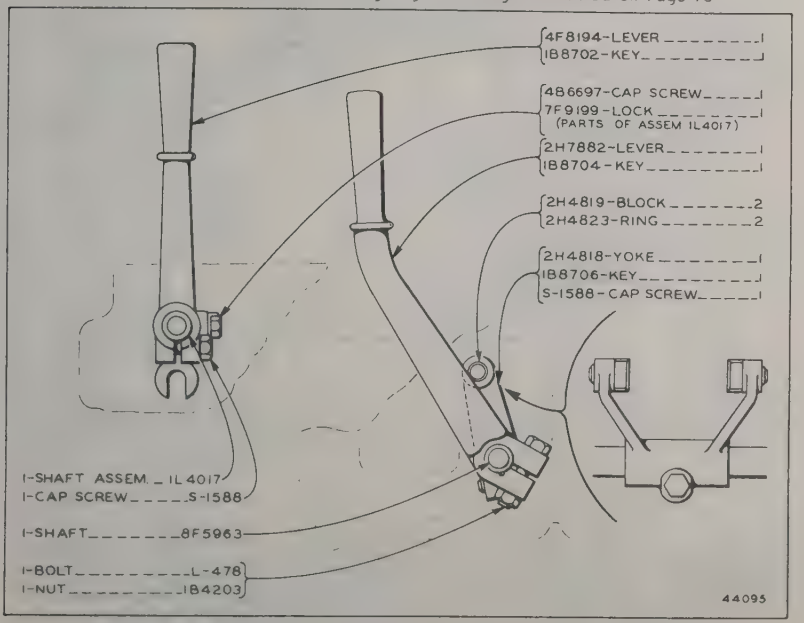

| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2N8814 | VALVE GROUP | 2 |
| 2 | 1F9223 | GASKET | 2 |

| | | | |
|---|---|---|---|
| 3 | 1L1351 | BOLT | 32 |
| | 3B4506 | LOCKWASHER | 32 |

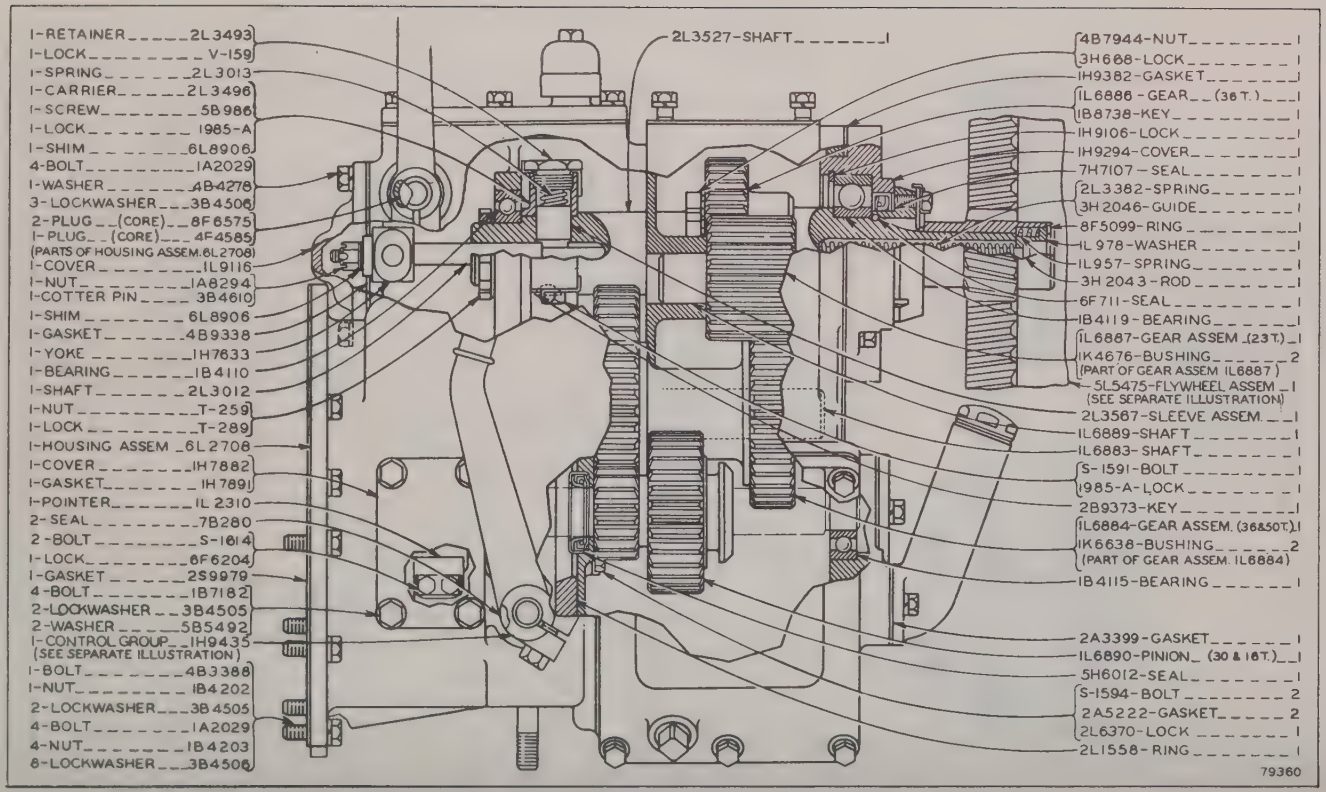
2N8815 CRANKCASE EXPLOSION RELIEF VALVE ARRANGEMENT




**1L7470 CLUTCH GROUP**
Effective with Serial No. 66B963—Up and 75B163—Up
Part of Complete Gasoline Starting Engine Arrangement listed on Page 70




**1H9435 CLUTCH AND STARTER PINION CONTROL GROUP**
Part of 6L2669 and 6L2668 Transmission and Starter Pinion Groups shown on Pages 82 and 84




**6L2669 TRANSMISSION AND STARTER PINION GROUP—S.A.E. Standard Engine Rotation—Side View**

Effective with Starting Engine Block No. F1270

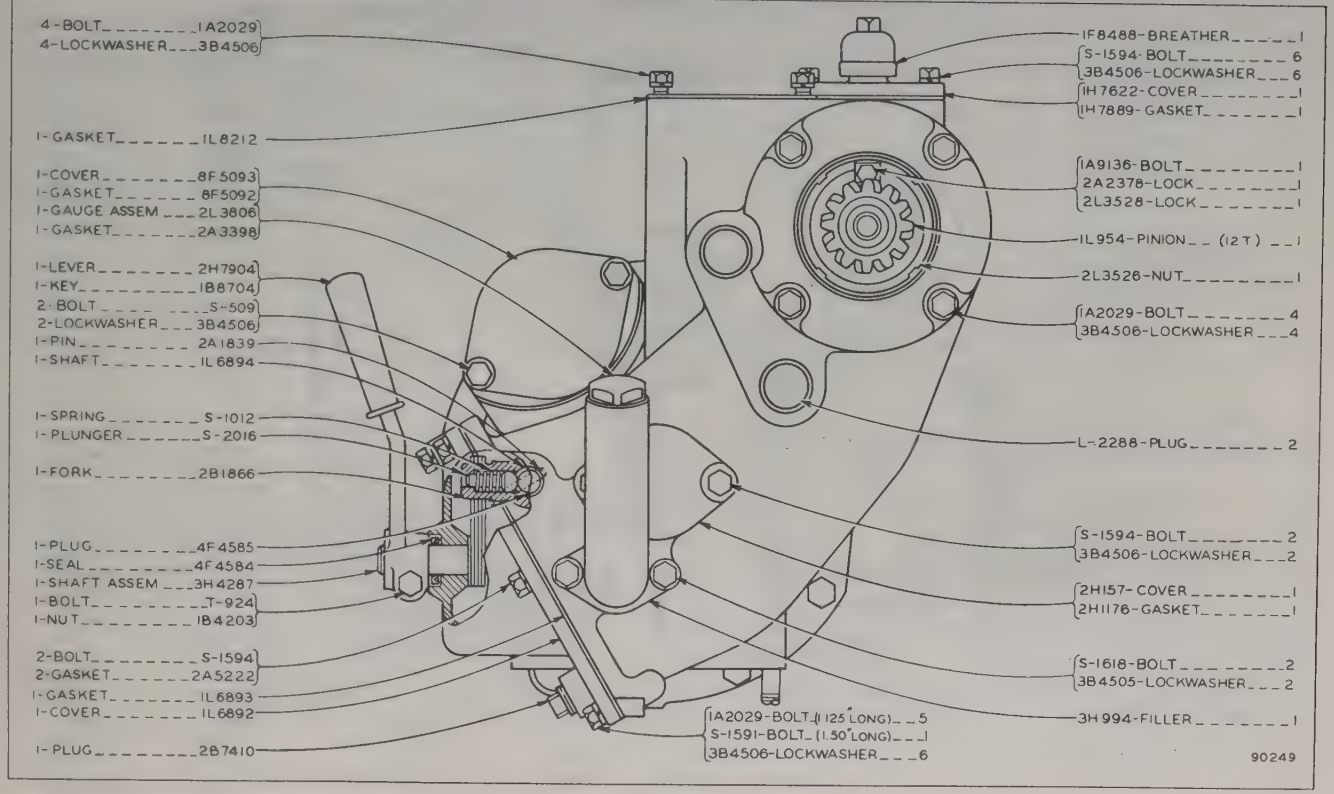
Part of Complete Gasoline Starting Engine Arrangement listed on Page 70

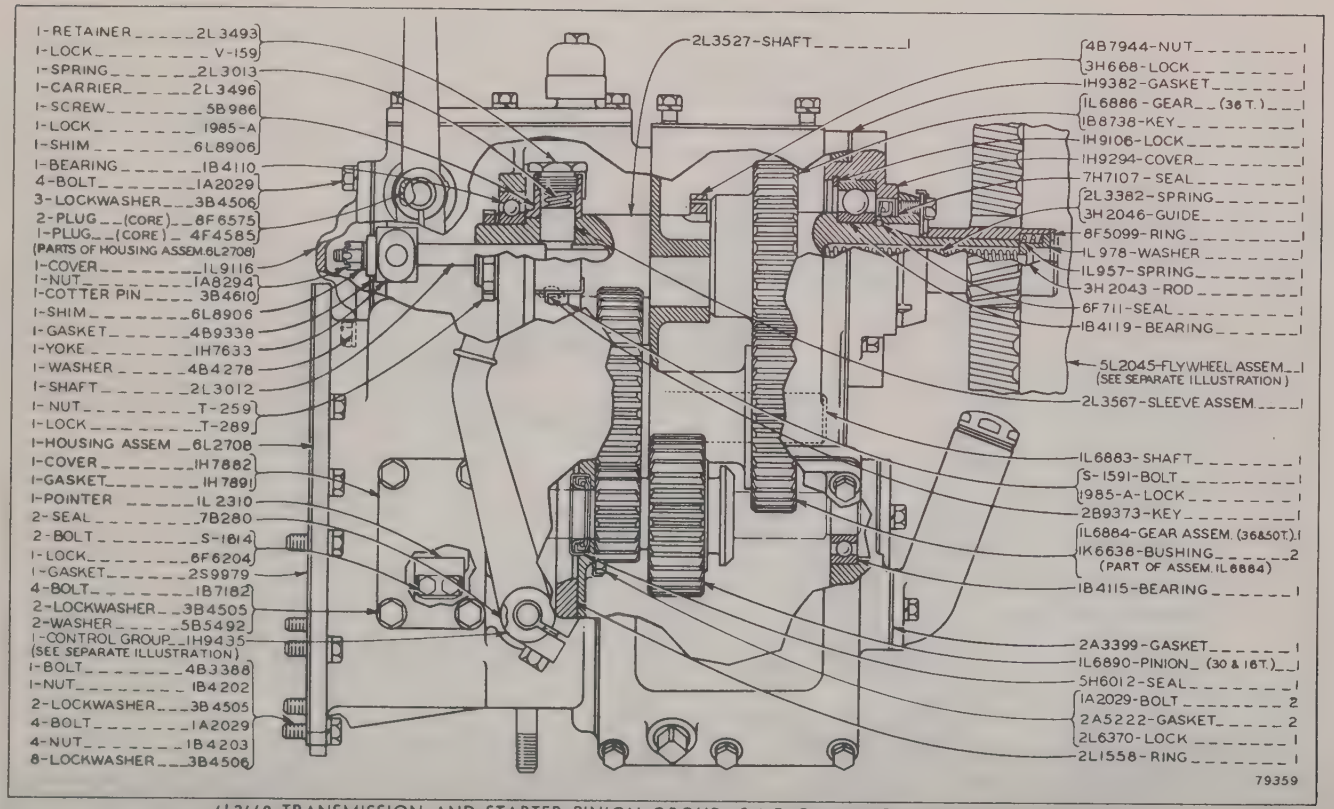
1H9435 Clutch and Starter Pinion Control Group and 5L5475 Flywheel Assembly parts are shown on Pages 81 and 86

## 6L2669 TRANSMISSION AND STARTER PINION GROUP—S.A.E. Standard Engine Rotation—End View

Effective with Starting Engine Block No. F1270

Part of Complete Gasoline Starting Engine Arrangement listed on Page 70






6L2668 TRANSMISSION AND STARTER PINION GROUP—S.A.E. Opposite Engine Rotation—Side View

Effective with Starting Engine Block No. F1270

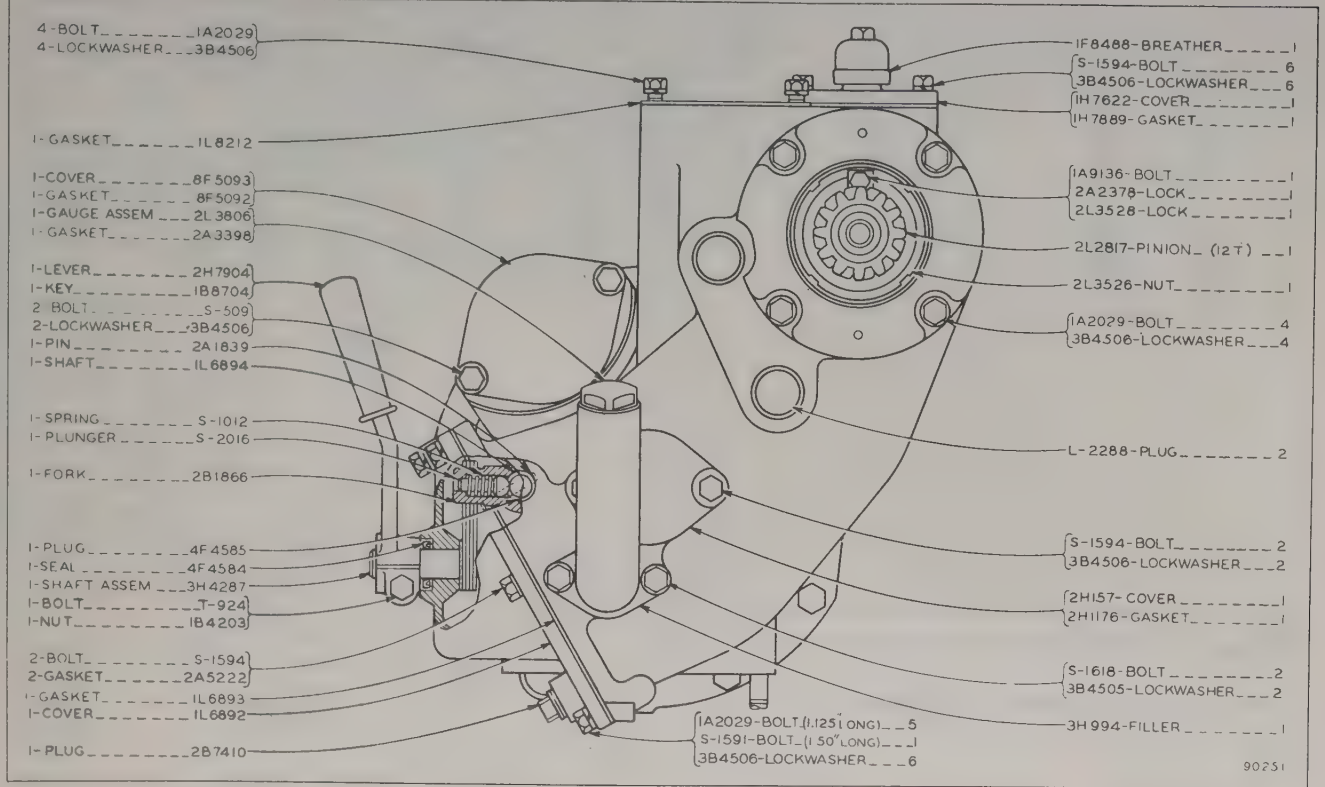
Part of Complete Gasoline Starting Engine Arrangement listed on Page 70

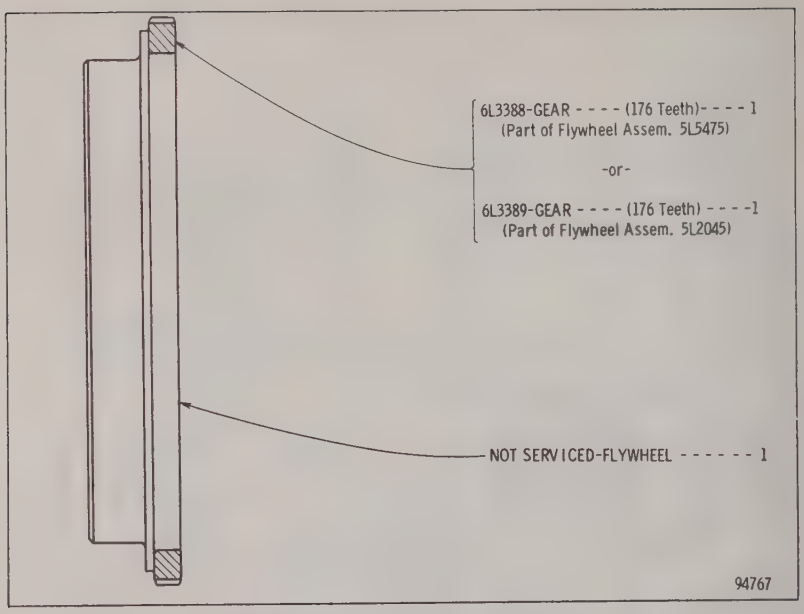
1H9435 Clutch and Starter Pinion Control Group and 5L2045 Flywheel Assembly parts are shown on Pages 81 and 86

## 6L2668 TRANSMISSION AND STARTER PINION GROUP—S.A.E. Opposite Engine Rotation—End View

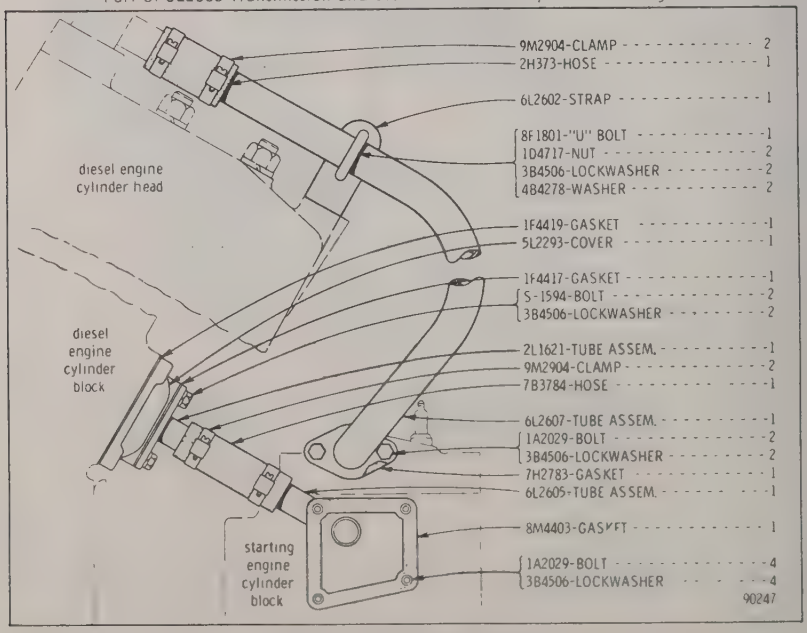
Effective with Starting Engine Block No. F1270

Part of Complete Gasoline Starting Engine Arrangement listed on Page 70

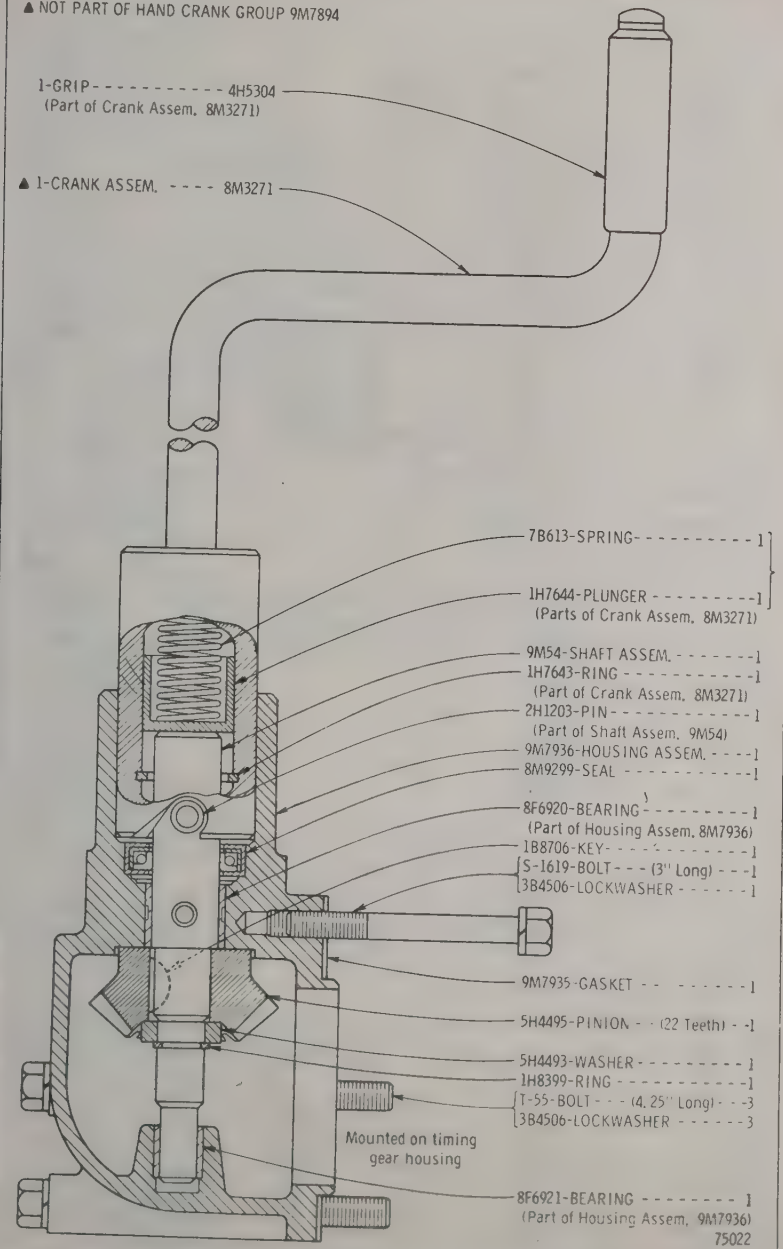




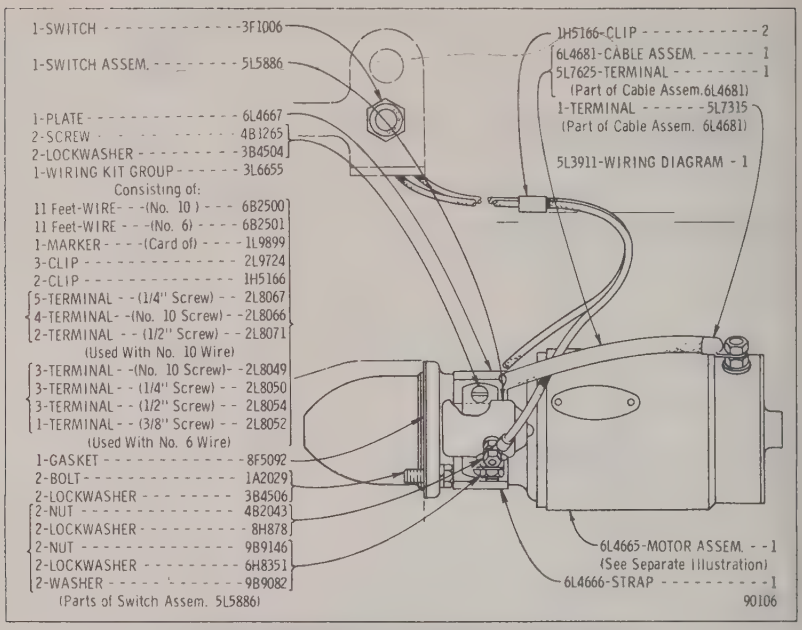

**5L5475 FLYWHEEL ASSEMBLY—S.A.E. Standard Engine Rotation**
Part of 6L2669 Transmission and Starter Pinion Group shown on Page 82
**5L2045 FLYWHEEL ASSEMBLY—S.A.E. Opposite Engine Rotation**
Part of 6L2668 Transmission and Starter Pinion Group shown on Page 84



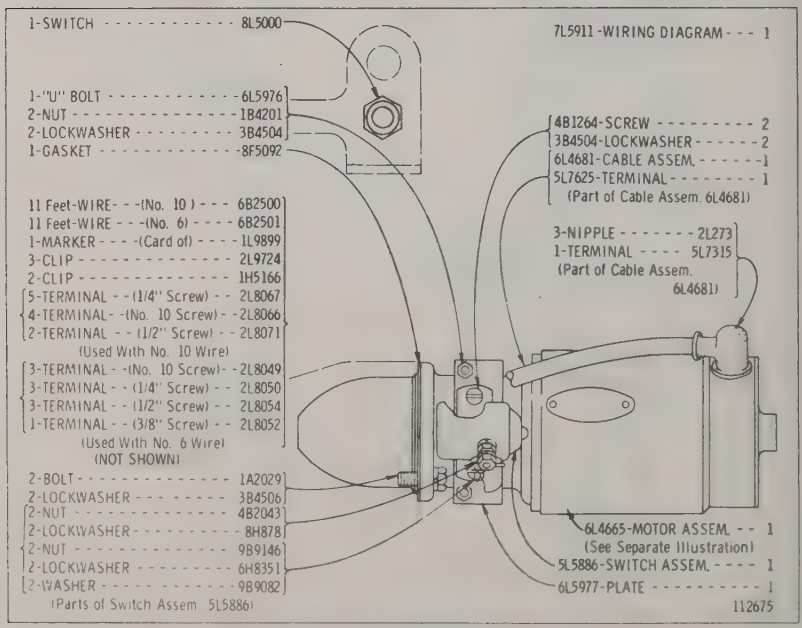

**6L2601 WATER LINES GROUP**
Effective with Starting Engine Block No. F1270
Part of Complete Gasoline Starting Engine Arrangement listed on Page 70




**9M7894 MANUAL STARTING CRANK GROUP**
Effective with Starting Engine Block No. F1270
Part of Basic Starting Engine Arrangement listed on Page 70



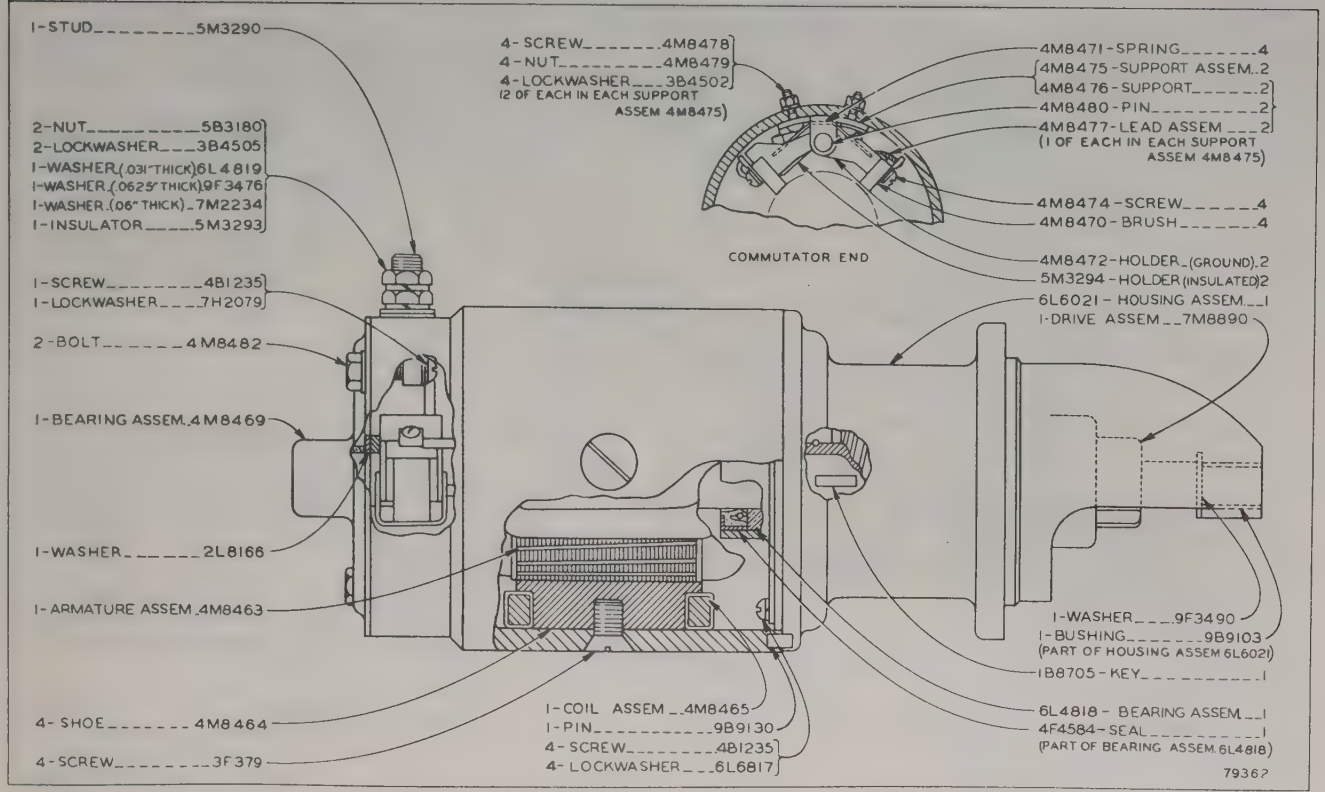

**2L1704 ELECTRIC STARTING GROUP—12 Volt**
**FOR USE WITH GASOLINE STARTING**
**Only separate parts serviced. When complete Group is required order 6L5978**

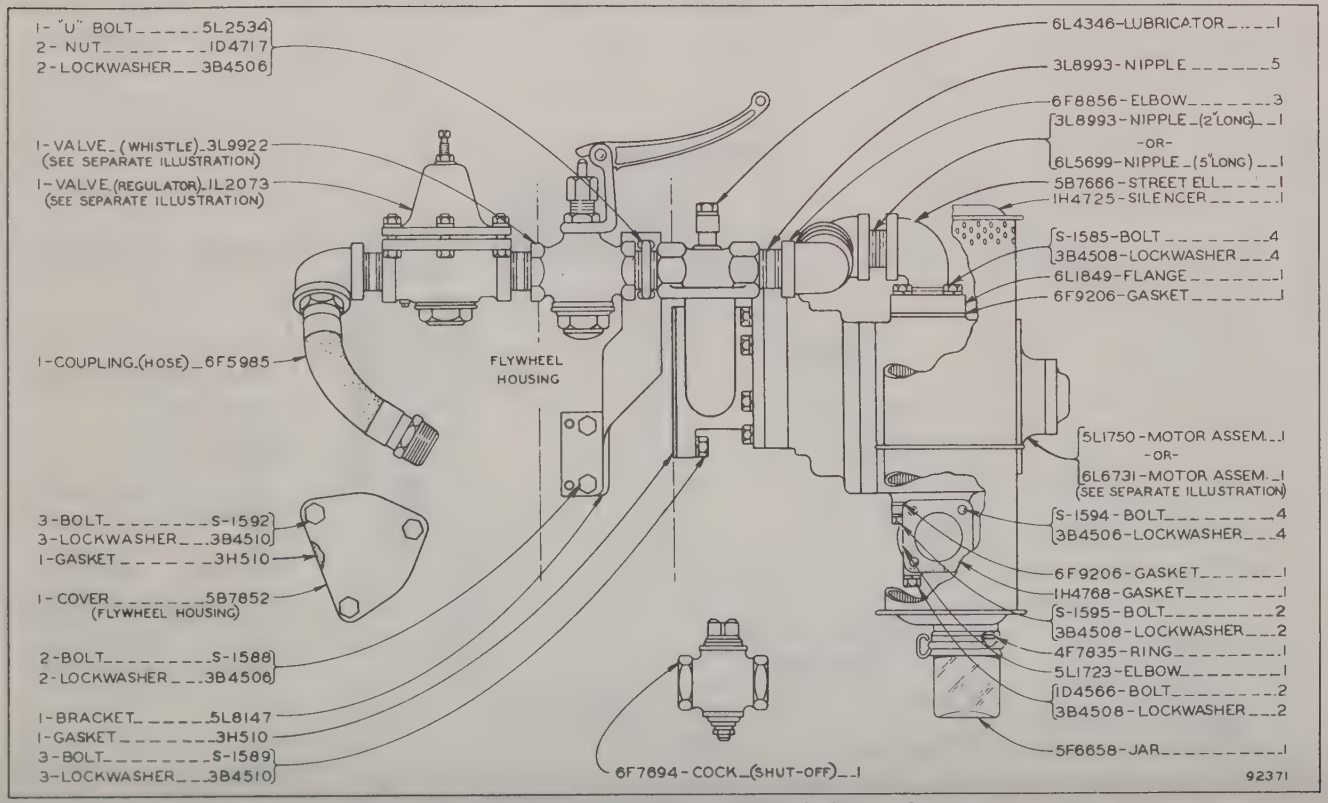



**6L5978 ELECTRIC STARTING GROUP—12 Volt**
**FOR USE WITH GASOLINE STARTING**

## 6L4665 ELECTRIC STARTING MOTOR ASSEMBLY—12 Volt

Part of 2L1704 Electric Starting Group



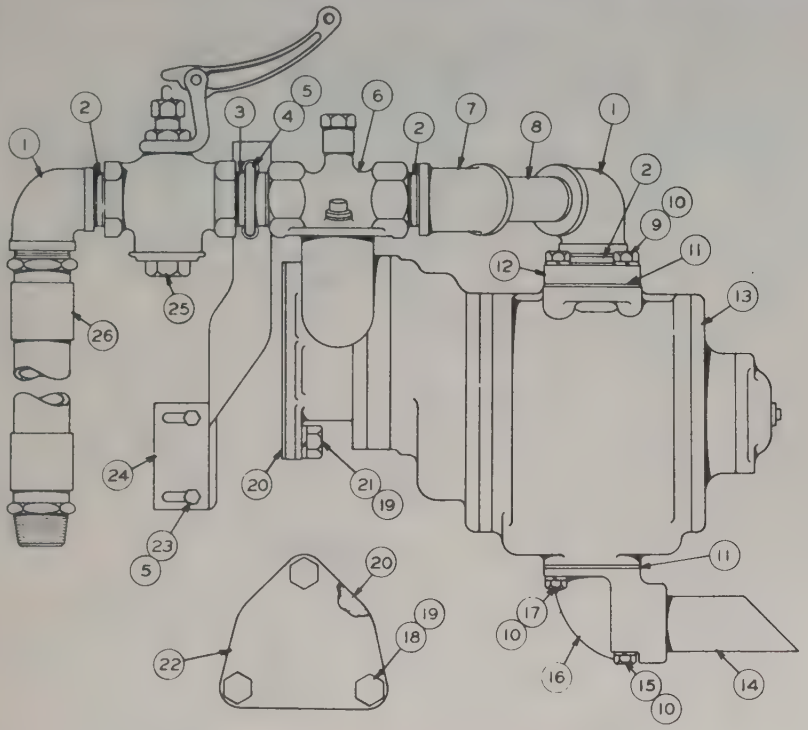



**6L2801 AIR STARTING GROUP—R.H.—S.A.E. Standard Engine Rotation**

5L1750, 6L6731 Motor Assembly, 1L2073 Regulating Valve and 3L9922 Whistle Valve parts are shown on Pages 94, 94A and 97

Only separate parts serviced. When Complete Group is required order 6L8418

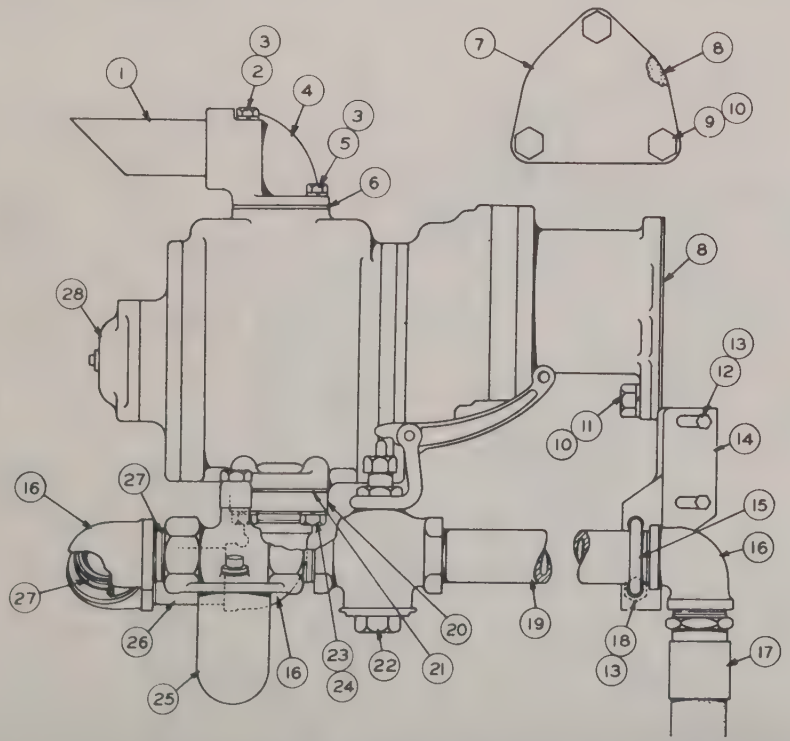
7L6914 AIR STARTING MOTOR GROUP—R.H.—S.A.E. Standard Engine Rotation
3L9922 Valve, 6L6731 Motor and 4N7556 Air Motor Lubricator parts are shown on Pages 94A, 94C & 97



| | REF. NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| | 1 | 6B3685 | ELBOW | 2 |
| | 2 | 5B7661 | NIPPLE | 3 |
| | 3 | 1L2893 | NIPPLE | 1 |
| | 4 | 5L2534 | U-BOLT | 1 |
| | | 1D4717 | NUT | 2 |
| | 5 | 3B4506 | LOCKWASHER | 4 |
| C | 6 | 4N7556 | LUBRICATOR GROUP (Separate Illustration) | 1 |
| | 7 | 2L2813 | ELBOW | 1 |
| | 8 | 4S5575 | NIPPLE | 1 |
| | 9 | S1585 | BOLT | 4 |
| | 10 | 3B4508 | LOCKWASHER | 8 |
| | 11 | 6F9206 | GASKET | 2 |
| | 12 | 6L1849 | FLANGE | 1 |
| | 13 | 6L6731 | MOTOR ASSEM. (Separate Illustration) | 1 |
| | 14 | 6F9497 | FITTING | 1 |
| | 15 | 1B2886 | BOLT—9,53 cm(3.75 in.) long | 2 |
| | 16 | 7F8023 | ELBOW | 1 |
| | 17 | S1595 | BOLT—3,18 cm(1.25 in.) long | 2 |
| | 18 | S1592 | BOLT | 3 |
| | 19 | 3B4510 | LOCKWASHER | 6 |
| | 20 | 3H510 | GASKET | 2 |
| | 21 | S1589 | BOLT | 3 |
| | 22 | 5B7852 | COVER—(flywheel housing) | 1 |
| | 23 | S1588 | BOLT | 2 |
| | 24 | 6L8487 | BRACKET | 1 |
| | 25 | 3L9922 | VALVE—(whistle) (Separate Illustration) | 1 |
| | 26 | 6F5985 | COUPLING | 1 |

C INDICATES CHANGE

150093




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6F9497 | FITTING | 1 |
| 2 | 1B2886 | BOLT-9.53 cm(3.75 in.) long | 2 |
| 3 | 3B4508 | LOCKWASHER | 4 |
| 4 | 7F8023 | ELBOW | 1 |
| 5 | S1595 | BOLT-3.18 cm(1.25 in.) long | 2 |
| 6 | 6F9206 | GASKET | 1 |
| | | (without Silencer and Vapor Arrestor) | |
| 7 | 5B7852 | COVER-(Flywheel Housing) | 1 |
| 8 | 3H510 | GASKET | 2 |
| 9 | S1592 | BOLT | 3 |
| 10 | 3B4510 | LOCKWASHER | 6 |
| 11 | S1589 | BOLT | 3 |
| 12 | S1594 | BOLT | 2 |
| 13 | 3B4506 | LOCKWASHER | 4 |
| 14 | 5L1722 | BRACKET | 1 |
| 15 | 5L2534 | U-BOLT | 1 |
| 16 | 6B3685 | ELBOW | 4 |
| 17 | 6F5985 | COUPLING | 1 |
| 18 | 1D4717 | NUT | 2 |
| C 19 | 3R9595 | NIPPLE | 1 |
| | | (For use without Regulator) | |
| 20 | 6L1849 | FLANGE | 1 |
| 21 | 6F9206 | GASKET | 1 |
| 22 | 3L9922 | VALVE-(whistle) | 1 |
| | | (Separate Illustration) | |
| 23 | S1587 | BOLT | 4 |
| 24 | 3B4508 | LOCKWASHER | 4 |
| C 25 | 4N7556 | LUBRICATOR GROUP | 1 |
| | | (Separate Illustration) | |
| 26 | 6L7349 | NIPPLE | 1 |
| 27 | 5B7661 | NIPPLE | 4 |
| 28 | 6L6731 | MOTOR ASSEM. | 1 |
| | | (Separate Illustration) | |

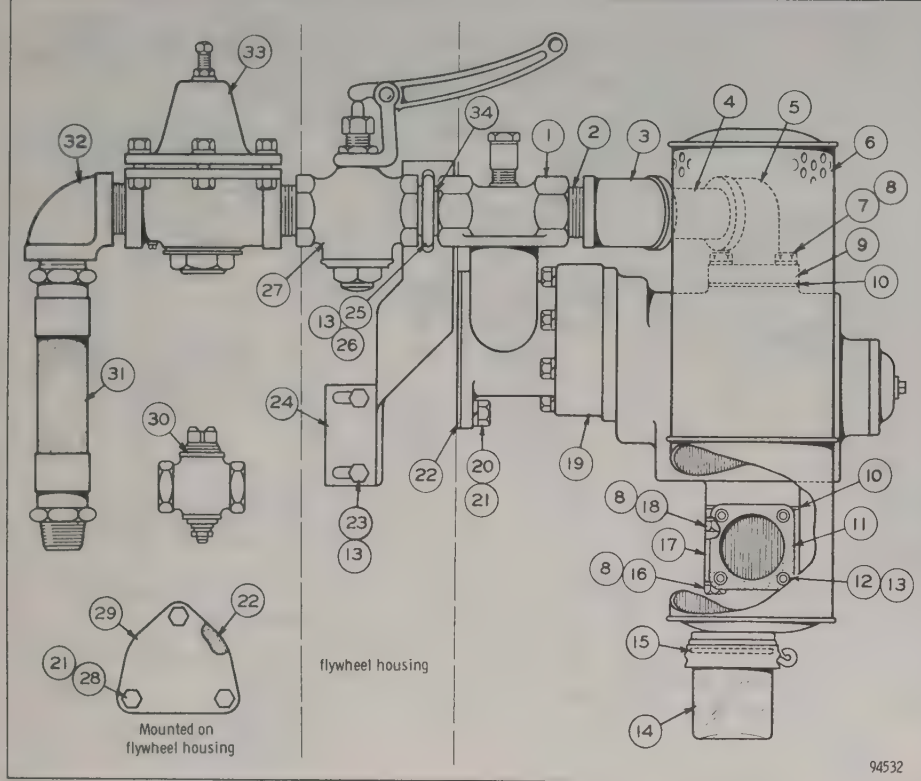
C INDICATES CHANGE

150096

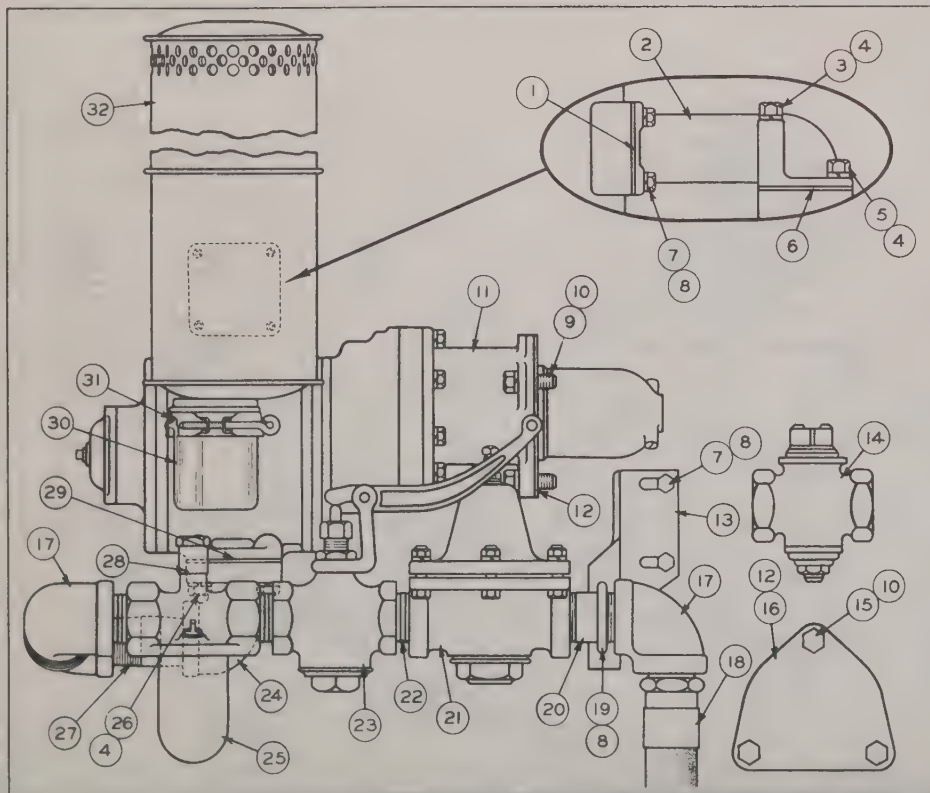
7L6916 AIR STARTING MOTOR GROUP—L.H.—S.A.E. Standard Engine Rotation
3L9922 Valve, 6L6731 Motor and 4N7556 Air Motor Lubricator parts are shown on Pages 94A, 94C & 97

## 6L8418 AIR STARTING GROUP—R.H.—S.A.E. Standard Engine Rotation

6L6731 Motor Assembly, 1L2073 Regulating Valve and 3L9922 Whistle Valve parts are shown on Pages 94A and 97




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L4346 | LUBRICATOR | 1 |
| 2 | 3L8993 | NIPPLE | 3 |
| 3 | 2L2813 | ELBOW | 1 |
| 4 | 6L5699 | NIPPLE | 1 |
| 5 | 5B7666 | STREET ELL | 1 |
| 6 | 1H4725 | SILENCER | 1 |
| 7 | S-1585 | BOLT | 4 |
| 8 | 3B4508 | LOCKWASHER | 8 |
| 9 | 6L1849 | FLANGE | 1 |
| 10 | 6F9206 | GASKET | 2 |
| 11 | 1H4768 | GASKET | 1 |
| 12 | S-1594 | BOLT | 4 |
| 13 | 3B4506 | LOCKWASHER | 8 |
| 14 | 5F6658 | JAR | 1 |
| 15 | 4F7835 | RING | 1 |
| 16 | 1D4566 | BOLT | 2 |
| 17 | 5L1723 | ELBOW | 1 |
| 18 | S-1595 | BOLT | 2 |
| 19 | 6L6731 | MOTOR ASSEM. (See Separate Illustration) | 1 |
| 20 | S-1589 | BOLT | 3 |
| 21 | 3B4510 | LOCKWASHER | 6 |
| 22 | 3H510 | GASKET | 2 |
| 23 | S-1588 | BOLT | 2 |
| 24 | 6L8487 | BRACKET | 1 |
| 25 | 5L2534 | "U" BOLT | 1 |
| 26 | 1D4717 | NUT | 2 |
| 27 | 3L9922 | VALVE--------(Whistle)-------- (See Separate Illustration) | 1 |
| 28 | S-1592 | BOLT | 3 |
| 29 | 5B7852 | COVER | 1 |
| 30 | 6F7694 | COCK | 1 |
| 31 | 6F5985 | COUPLING (12" Long Includes Fitting-6F8856 Elbow to Auxiliary Compressor) | 1 |
| 32 | 6F8856 | ELBOW | 1 |
| 33 | 1L2073 | VALVE--------(Regulator)-------- (See Separate Illustration) | 1 |
| 34 | 3L8992 | NIPPLE | 1 |



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 1H4768 | GASKET | 1 |
| 2 | 5L1723 | ELBOW | 1 |
| 3 | 1D4566 | BOLT—(3.50" Long) | 2 |
| 4 | 3B4508 | LOCKWASHER | 8 |
| 5 | S-1595 | BOLT—(1.25" Long) | 2 |
| 6 | 6F9206 | GASKET | 1 |
| 7 | S-1594 | BOLT | 6 |
| 8 | 3B4506 | LOCKWASHER | 8 |
| 9 | S-1589 | BOLT | 3 |
| 10 | 3B4510 | LOCKWASHER | 6 |
| 11 | 5L1750 | MOTOR ASSEM. | 1 |
| | | -or- | |
| | 6L6731 | MOTOR ASSEM. (See Separate Illustration) | 1 |
| 12 | 3H510 | GASKET | 2 |
| 13 | 5L1722 | BRACKET | 1 |
| 14 | 6F7694 | COCK—(Shut-off) | 1 |
| 15 | S-1592 | BOLT | 3 |
| 16 | 5B7852 | COVER—(Flywheel Housing) | 1 |
| 17 | 6F8856 | ELBOW | 3 |
| 18 | 6F5985 | COUPLING | 1 |
| 19 | 5L2534 | "U" BOLT | 1 |
| | 1D4717 | NUT | 2 |
| 20 | 3L8993 | NIPPLE | 1 |
| 21 | 1L2073 | VALVE—(Regulator) (See Separate Illustration) | 1 |
| 22 | 6F8858 | NIPPLE | 4 |
| 23 | 3L9922 | VALVE—(Whistle) (See Separate Illustration) | 1 |
| 24 | 5B7666 | STREET ELBOW | 1 |
| 25 | 6L4347 | LUBRICATOR | 1 |
| 26 | S-1587 | BOLT | 4 |
| 27 | 3L1258 | NIPPLE | 1 |
| 28 | 6L1849 | FLANGE | 1 |
| 29 | 6F9206 | GASKET | 1 |
| 30 | 5F6658 | JAR | 1 |
| 31 | 4F7835 | RING | 1 |
| 32 | 1H4725 | SILENCER | 1 |

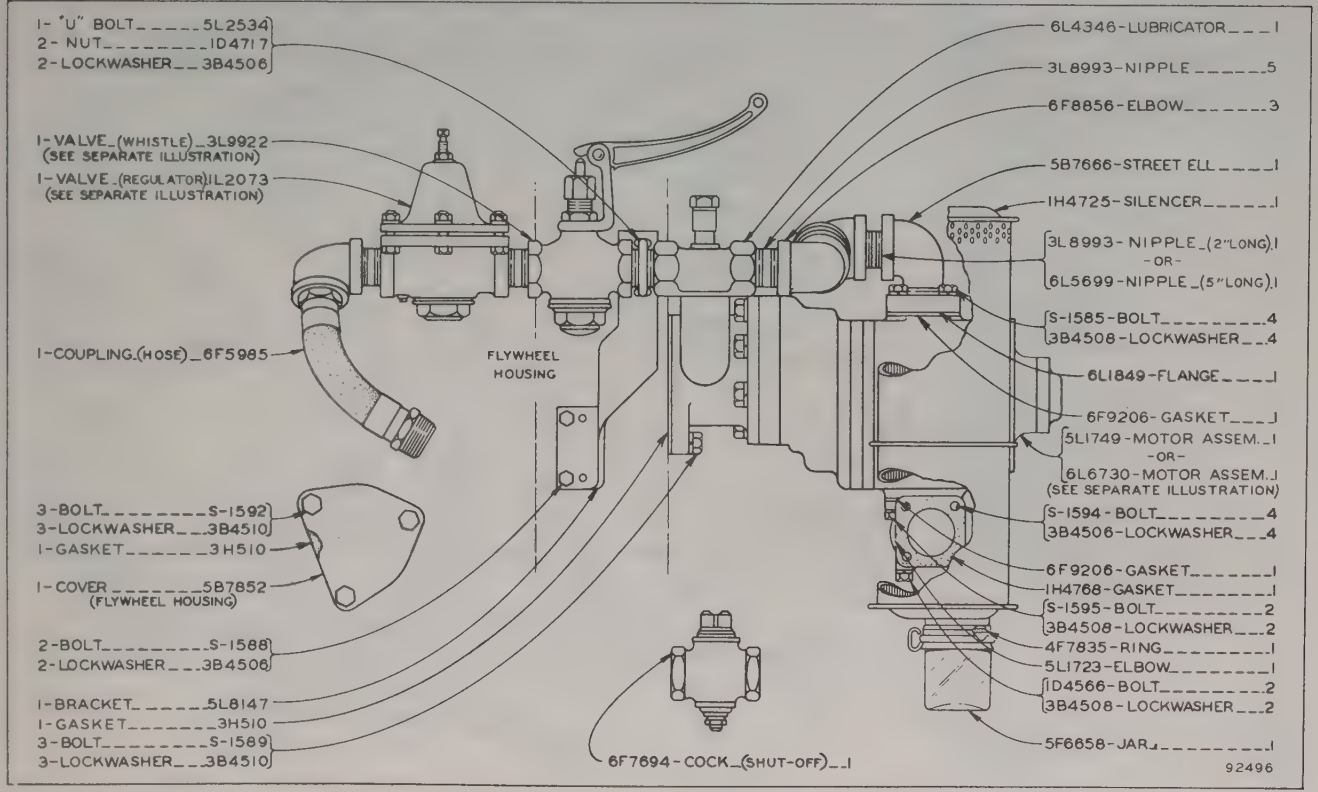
94008

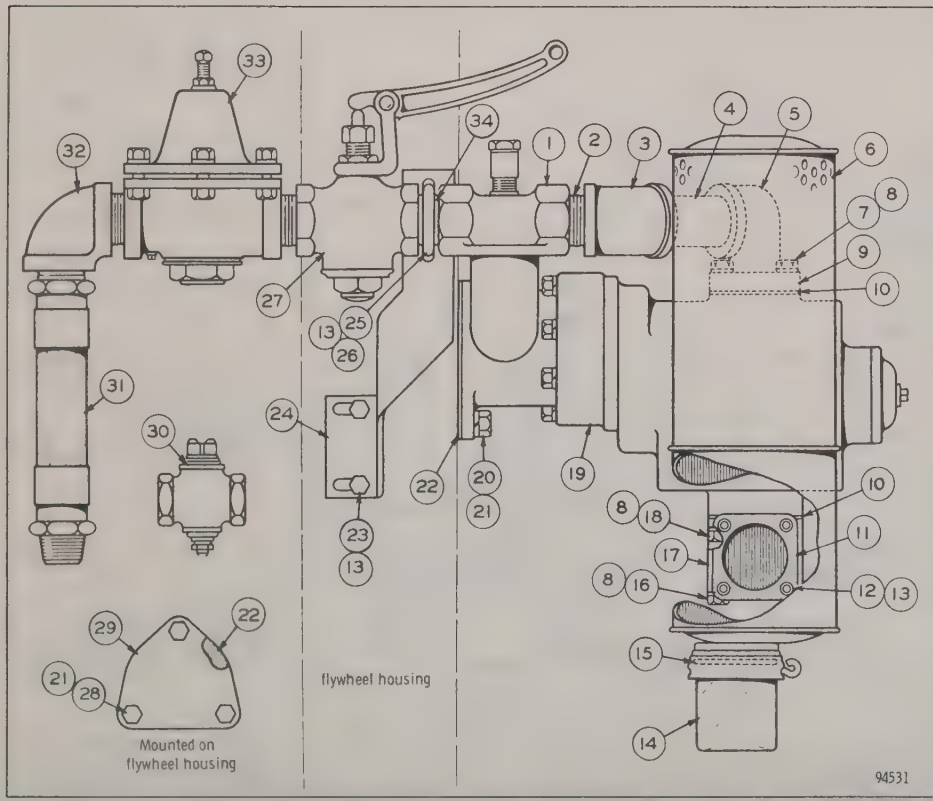
**6L2804 AIR STARTING GROUP—L.H.—S.A.E. Standard Engine Rotation**

5L1750, 6L6731 Motor Assembly, 1L2073 Regulating Valve and 3L9922 Whistle Valve parts are shown on Pages 94, 94A and 97

## 6L2803 AIR STARTING GROUP—R.H.—S.A.E. Opposite Engine Rotation

5L1749, 6L6730 Motor Assembly. 1L2073 Regulating Valve and 3L9922 Whistle Valve parts are shown on Pages 94, 94A and 97
Only separate parts serviced. When Complete Group is required order 6L8417



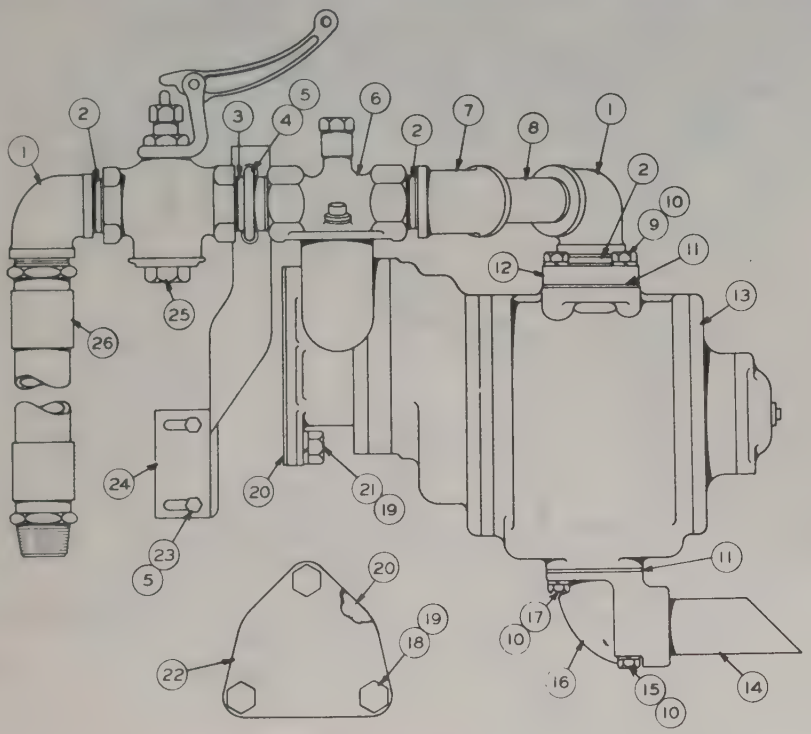



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L4346 | LUBRICATOR | 1 |
| 2 | 3L8993 | NIPPLE | 3 |
| 3 | 2L2813 | ELBOW | 1 |
| 4 | 6L5699 | NIPPLE | 1 |
| 5 | 5B7666 | STREET ELL | 1 |
| 6 | 1H4725 | SILENCER | 1 |
| 7 | S-1585 | BOLT | 4 |
| 8 | 3B4508 | LOCKWASHER | 8 |
| 9 | 6L1849 | FLANGE | 1 |
| 10 | 6F9206 | GASKET | 2 |
| 11 | 1H4768 | GASKET | 1 |
| 12 | S-1594 | BOLT | 4 |
| 13 | 3B4506 | LOCKWASHER | 8 |
| 14 | 5F6658 | JAR | 1 |
| 15 | 4F7835 | RING | 1 |
| 16 | 1D4566 | BOLT | 2 |
| 17 | 5L1723 | ELBOW | 1 |
| 18 | S-1595 | BOLT | 2 |
| 19 | 6L6730 | MOTOR ASSEM. (See Separate Illustration) | 1 |
| 20 | S-1589 | BOLT | 3 |
| 21 | 3B4510 | LOCKWASHER | 6 |
| 22 | 3H510 | GASKET | 2 |
| 23 | S-1588 | BOLT | 2 |
| 24 | 6L8487 | BRACKET | 1 |
| 25 | 5L2534 | "U" BOLT | 1 |
| 26 | 1D4717 | NUT | 2 |
| 27 | 3L9922 | VALVE-(Whistle) (See Separate Illustration) | 1 |
| 28 | S-1592 | BOLT | 3 |
| 29 | 5B7852 | COVER | 1 |
| 30 | 6F7694 | COCK | 1 |
| 31 | 6F5985 | COUPLING (12" Long Includes Fitting-6F8856 Elbow to Auxiliary Compressor) | 1 |
| 32 | 6F8856 | ELBOW | 1 |
| 33 | 1L2073 | VALVE-(Regulator) (See Separate Illustration) | 1 |
| 34 | 3L8992 | NIPPLE | 1 |

**6L8417 AIR STARTING GROUP—R.H.—S.A.E. Opposite Standard Engine Rotation**

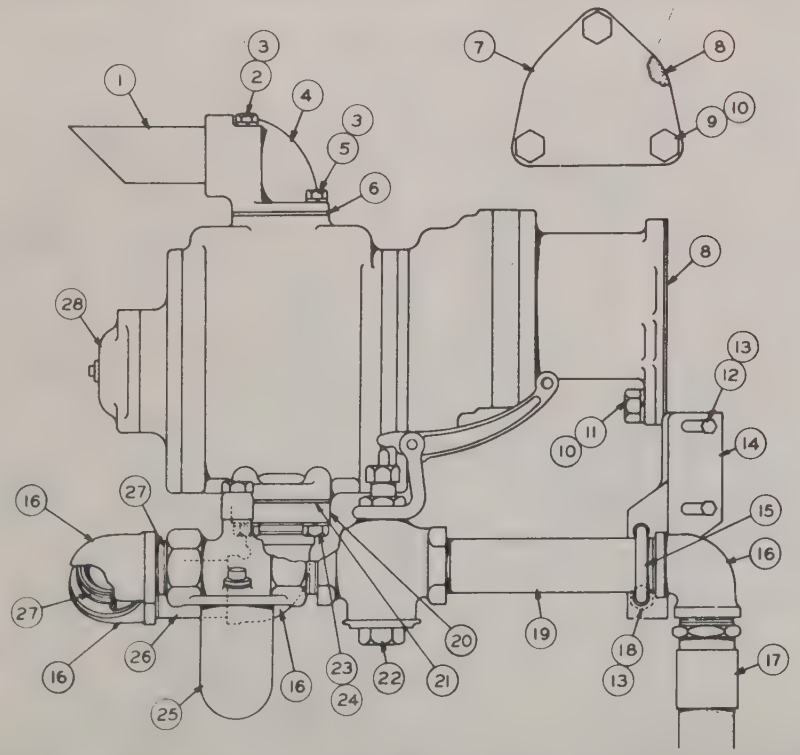
6L6730 Motor Assembly, 1L2073 Regulating Valve and 3L9922 Whistle Valve parts are shown on Pages 94A and 97

7L6913 AIR STARTING MOTOR GROUP—R.H.—S.A.E. Opposite Standard Engine Rotation
3L9922 Valve, 6L6730 Motor and 4N7556 Air Motor Lubricator parts are shown on Pages 94A, 94C & 97




| | REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| | 1 | 6B3685 | ELBOW | 2 |
| | 2 | 5B7661 | NIPPLE | 3 |
| | 3 | 1L2893 | NIPPLE | 1 |
| | 4 | 5L2534 | U-BOLT | 1 |
| | | 1D4717 | NUT | 2 |
| | 5 | 3B4506 | LOCKWASHER | 4 |
| C | 6 | 4N7556 | LUBRICATOR GROUP (Separate Illustration) | 1 |
| | 7 | 2L2813 | ELBOW | 1 |
| | 8 | 4S5575 | NIPPLE | 1 |
| | 9 | S1585 | BOLT | 4 |
| | 10 | 3B4508 | LOCKWASHER | 8 |
| | 11 | 6F9206 | GASKET | 2 |
| | 12 | 6L1849 | FLANGE | 1 |
| | 13 | 6L6730 | MOTOR ASSEM. (Separate Illustration) | 1 |
| | 14 | 6F9497 | FITTING | 1 |
| | 15 | 1B2886 | BOLT—9.53 cm(3.75 in.) long | |
| | 16 | 7F8023 | ELBOW | 1 |
| | 17 | S1595 | BOLT—3.18 cm(1.25 in.) long | 2 |
| | 18 | S1592 | BOLT | 3 |
| | 19 | 3B4510 | LOCKWASHER | 6 |
| | 20 | 3H510 | GASKET | 2 |
| | 21 | S1589 | BOLT | 3 |
| | 22 | 5B7852 | COVER—(flywheel housing) | 1 |
| | 23 | S1588 | BOLT | 2 |
| | 24 | 6L8487 | BRACKET | 1 |
| | 25 | 3L9922 | VALVE—(whistle) (Separate Illustration) | 1 |
| | 26 | 6F5985 | COUPLING | 1 |

C INDICATES CHANGE 150091



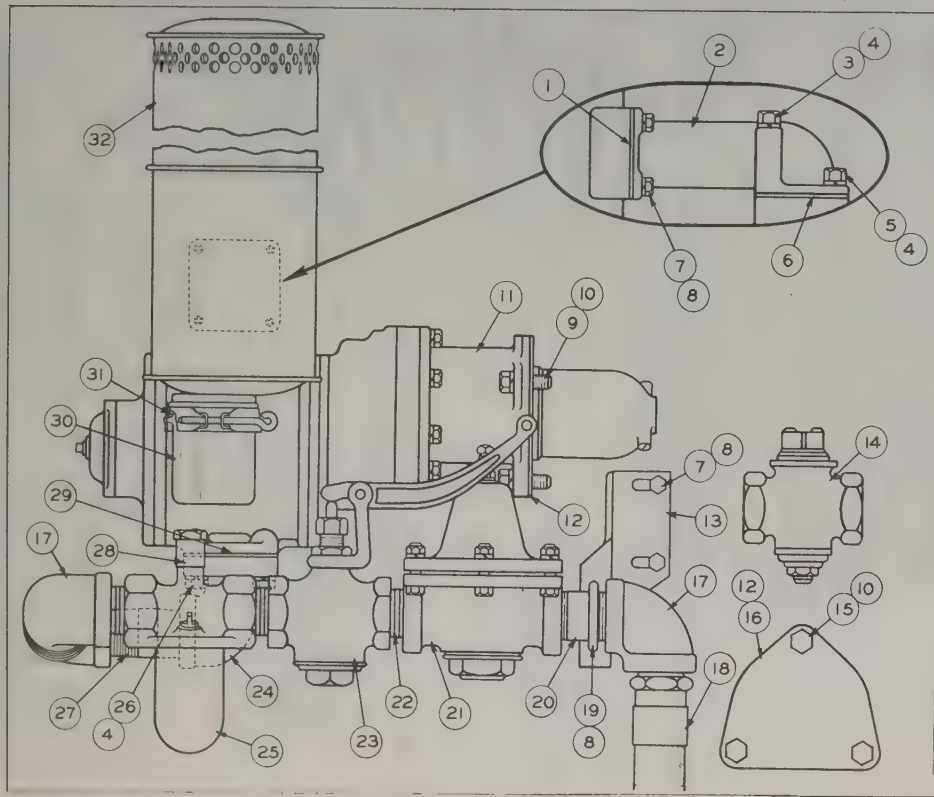

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6F9497 | FITTING | 1 |
| 2 | 1B2886 | BOLT--9.53 cm(3.75 in.)long | 2 |
| 3 | 3B4508 | LOCKWASHER | 4 |
| 4 | 7F8023 | ELBOW | 1 |
| 5 | S 1595 | BOLT--3.18 cm(1.25 in.)long | 2 |
| 6 | 6F9206 | GASKET | 1 |
| | | (For use without Silencer and Vapor Arrestor) | |
| 7 | 5B7852 | COVER--(Flywheel Housing) | 1 |
| 8 | 3H510 | GASKET | 2 |
| 9 | S 1592 | BOLT | 3 |
| 10 | 3B4510 | LOCKWASHER | 6 |
| 11 | S 1589 | BOLT | 3 |
| 12 | S 1594 | BOLT | 2 |
| 13 | 3B4506 | LOCKWASHER | 4 |
| 14 | 5L1722 | BRACKET | 1 |
| 15 | 5L2534 | "U"-BOLT | 1 |
| 16 | 6B3685 | ELBOW | 4 |
| 17 | 6F5985 | COUPLING | 1 |
| 18 | 1D4717 | NUT | 2 |
| C 19 | 3R9595 | NIPPLE | 1 |
| | | (For use without Regulator) | |
| 20 | 6L1849 | FLANGE | 1 |
| 21 | 6F9206 | GASKET | 1 |
| 22 | 3L9922 | VALVE--(Whistle) | 1 |
| | | (See Separate Illustration) | |
| 23 | S 1587 | BOLT | 4 |
| 24 | 3B4508 | LOCKWASHER | 4 |
| C 25 | 4N7556 | LUBRICATOR GROUP | 1 |
| | | (Separate Illustration) | |
| 26 | 6L7349 | NIPPLE | 1 |
| 27 | 5B7661 | NIPPLE | 4 |
| 28 | 6L6730 | MOTOR ASSEM. | 1 |
| | | (Separate Illustration) | |

C INDICATES CHANGE 150095

7L6915 AIR STARTING MOTOR GROUP—L.H.—S.A.E. Opposite Standard Engine Rotation
3L9922 Valve, 6L6730 Motor and 4N7556 Air Motor Lubricator parts are shown on Pages 94A, 94C & 97

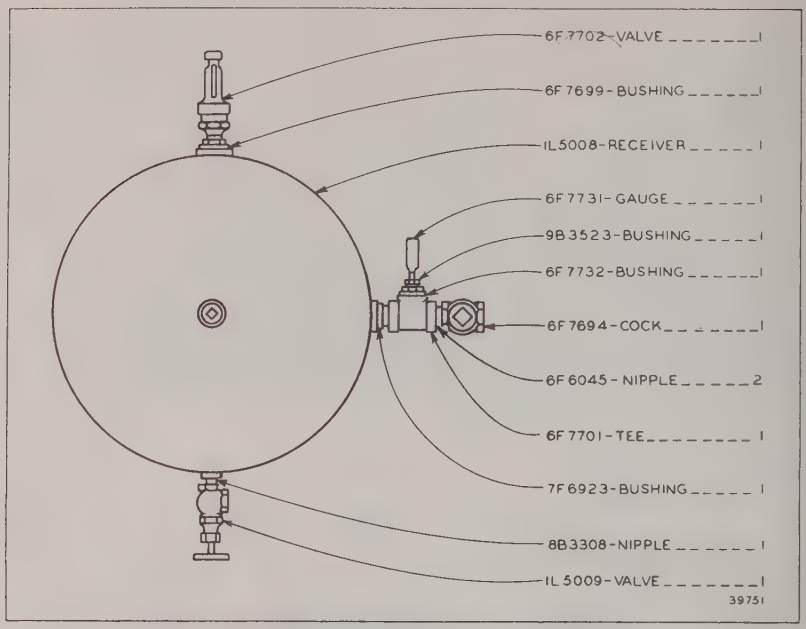
## 6L2802 AIR STARTING GROUP—L.H.—S.A.E. Opposite Engine Rotation

5L1749, 6L6730 Motor Assembly, 1L2073 Regulating Valve and 3L9922 Whistle Valve parts are shown on Pages 94, 94A and 97

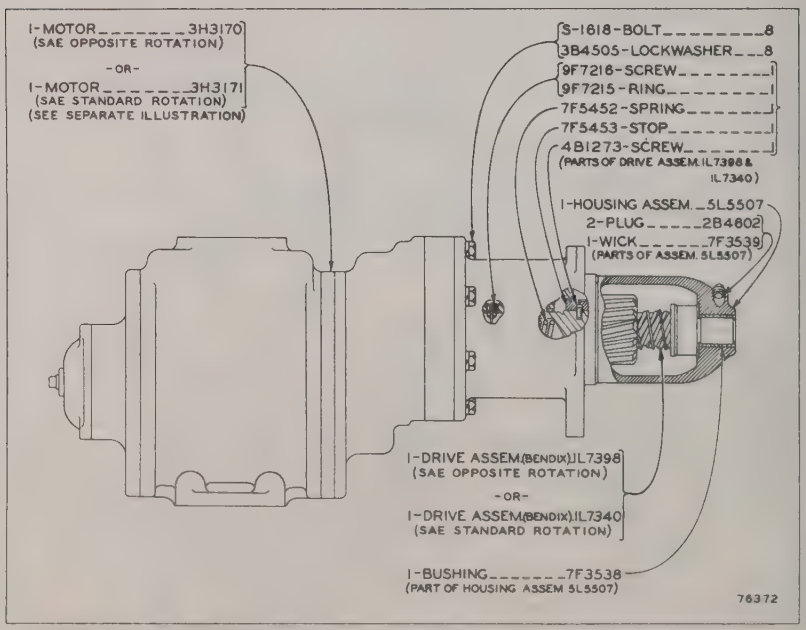


| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 1H4768 | GASKET | 1 |
| 2 | 5L1723 | ELBOW | 1 |
| 3 | 1D4566 | BOLT—(3.50" Long) | 2 |
| 4 | 3B4508 | LOCKWASHER | 8 |
| 5 | S-1595 | BOLT—(1.25" Long) | 2 |
| 6 | 6F9206 | GASKET | 1 |
| 7 | S-1594 | BOLT | 6 |
| 8 | 3B4506 | LOCKWASHER | 8 |
| 9 | S-1589 | BOLT | 3 |
| 10 | 3B4510 | LOCKWASHER | 6 |
| 11 | 5L1749 | MOTOR ASSEM. | 1 |
| | | or | |
| | 6L6730 | MOTOR ASSEM. | 1 |
| | | (See Separate Illustration) | |
| 12 | 3H510 | GASKET | 2 |
| 13 | 5L1722 | BRACKET | 1 |
| 14 | 6F7694 | COCK—(Shut-off) | 1 |
| 15 | S-1592 | BOLT | 3 |
| 16 | 5B7852 | COVER—(Flywheel Housing) | 1 |
| 17 | 6F8856 | ELBOW | 3 |
| 18 | 6F5985 | COUPLING | 1 |
| 19 | 5L2534 | "U" BOLT | 1 |
| | 1D4717 | NUT | 2 |
| 20 | 3L8993 | NIPPLE | 1 |
| 21 | 1L2073 | VALVE—(Regulator) | 1 |
| | | (See Separate Illustration) | |
| 22 | 6F8858 | NIPPLE | 4 |
| 23 | 3L9922 | VALVE—(Whistle) | 1 |
| | | (See Separate Illustration) | |
| 24 | 5B7666 | STREET ELBOW | 1 |
| 25 | 6L4347 | LUBRICATOR | 1 |
| 26 | S-1587 | BOLT | 4 |
| 27 | 3L1258 | NIPPLE | 1 |
| 28 | 6L1849 | FLANGE | 1 |
| 29 | 6F9206 | GASKET | 1 |
| 30 | 5F6658 | JAR | 1 |
| 31 | 4F7835 | RING | 1 |
| 32 | 1H4725 | SILENCER | 1 |

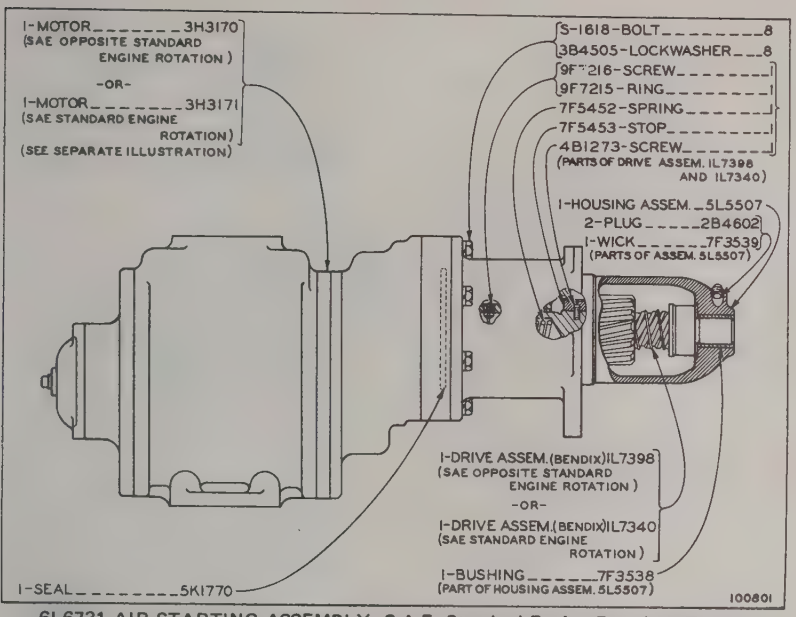
94002



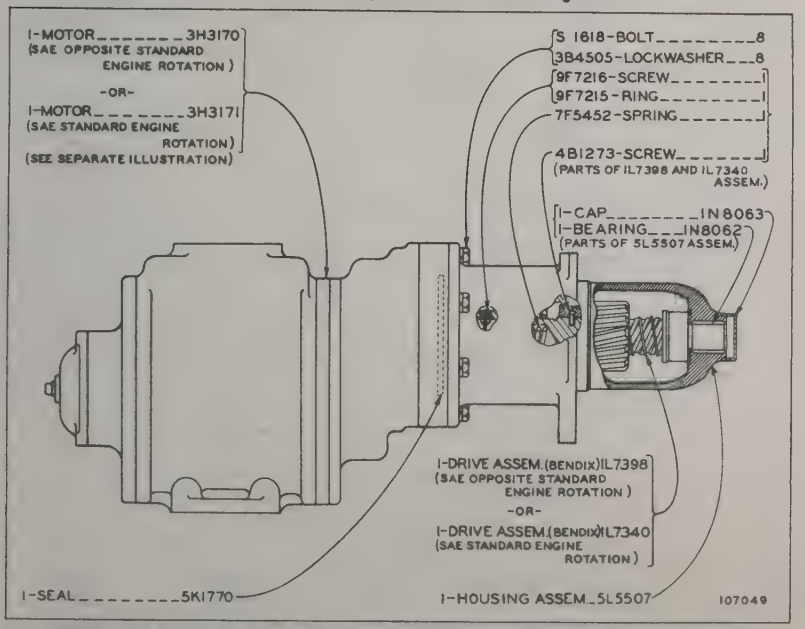

1L5010 AIR RECEIVER GROUP—10.5 Cubic Foot Capacity
FOR USE WITH AIR STARTING



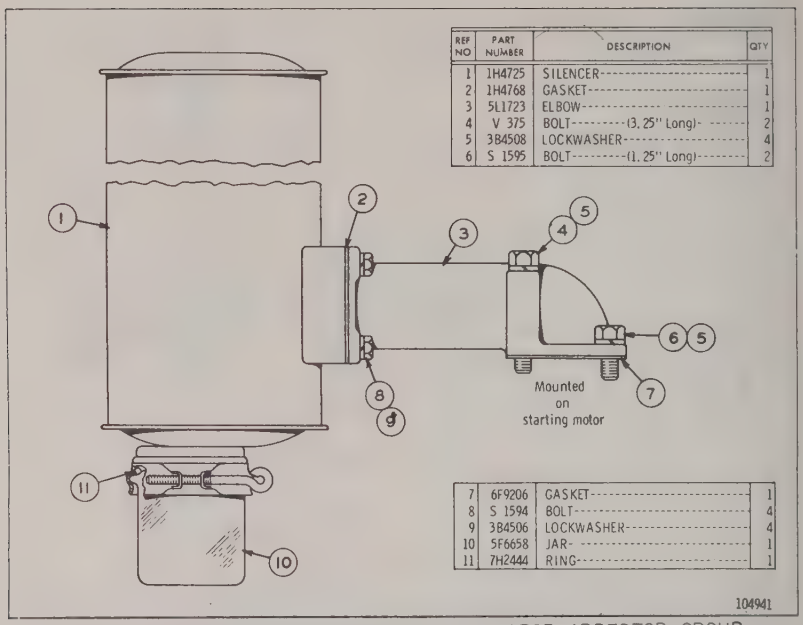

5L1750 AIR STARTING MOTOR ASSEMBLY—S.A.E. Standard Engine Rotation
Part of 6L2801 and 6L2804 Air Starting Groups shown on Pages 90 and 91
5L1749 AIR STARTING MOTOR ASSEMBLY—S.A.E. Opposite Engine Rotation
Part of 6L2803 and 6L2802 Air Starting Groups shown on Pages 92 and 93
3H3171 and 3H3170 Motor parts are shown on Pages 95 & 96




6L6731 AIR STARTING ASSEMBLY—S.A.E. Standard Engine Rotation—Type 1
6L6730 AIR STARTING ASSEMBLY—S.A.E. Opposite Standard Engine Rotation—Type 1
Part of Air Starting Groups shown on Pages 90 through 93
3H3171 and 3H3170 Motor parts are shown on Pages 95 and 96

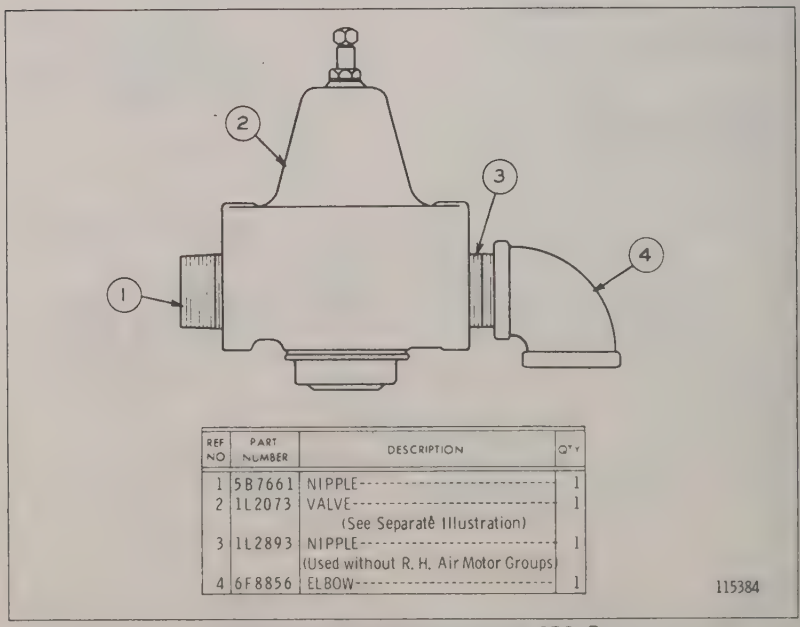



6L6731 AIR STARTING ASSEMBLY—S.A.E. Standard Engine Rotation—Type 2
6L6730 AIR STARTING ASSEMBLY—S.A.E. Opposite Standard Engine Rotation—Type 2
Part of Air Starting Groups shown on Pages 90 through 93
3H3171 and 3H3170 Motor parts are shown on Pages 95 and 96



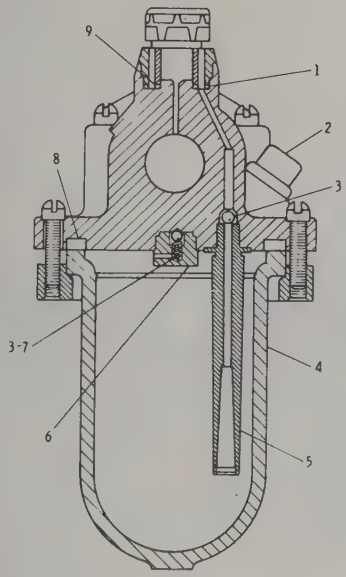

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 1H4725 | SILENCER | 1 |
| 2 | 1H4768 | GASKET | 1 |
| 3 | 5L1723 | ELBOW | 1 |
| 4 | V 375 | BOLT-(3.25" Long) | 2 |
| 5 | 3B4508 | LOCKWASHER | 4 |
| 6 | S 1595 | BOLT-(1.25" Long) | 2 |
| 7 | 6F9206 | GASKET | 1 |
| 8 | S 1594 | BOLT | 4 |
| 9 | 3B4506 | LOCKWASHER | 4 |
| 10 | 5F6658 | JAR | 1 |
| 11 | 7H2444 | RING | 1 |

7L6912 STARTING AIR SILENCER AND VAPOR ARRESTOR GROUP
FOR USE WITH 7L6913, 7L6914, 7L6915 AND 7L6916 AIR STARTING MOTOR GROUPS




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5B7661 | NIPPLE | 1 |
| 2 | 1L2073 | VALVE (See Separate Illustration) | 1 |
| 3 | 1L2893 | NIPPLE (Used without R. H. Air Motor Groups) | 1 |
| 4 | 6F8856 | ELBOW | 1 |

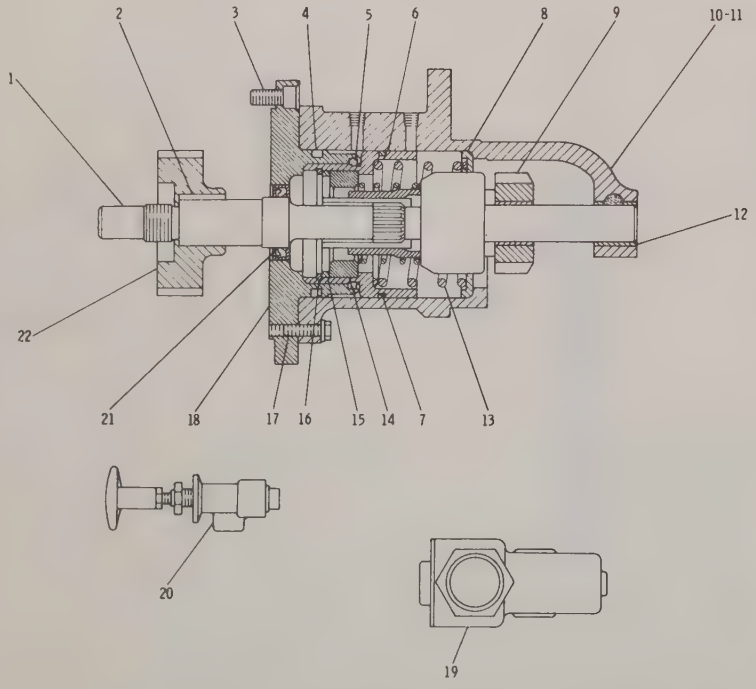
7L6911 AIR STARTING VALVE GROUP
FOR USE WITH 7L6913, 7L6914, 7L6915 AND 7L6916 AIR STARTING MOTOR GROUPS. 1L2073 VALVE PARTS ARE SHOWN ON PAGE 97




| REF. NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6N2186 | SEAL | 1 |
| 2 | 6N2185 | PLUG | 2 |
| 3 | 6N2188 | BALL | 2 |
| 4 | 6N2192 | BOWL | 1 |
| 5 | 6N2193 | TUBE | 1 |
| 6 | 6N2191 | SEAT | 1 |
| 7 | 6N2190 | SPRING | 1 |
| 8 | 6N2184 | GASKET | 1 |
| 9 | 6N2187 | SEAL | 1 |

153424

4N7556 AIR MOTOR LUBRICATOR GROUP
Part of 7L6914, 7L6916, 7L6913 and 7L6915 Air Starting Motor Groups
shown on Pages 90A, 91, 92C and 92D



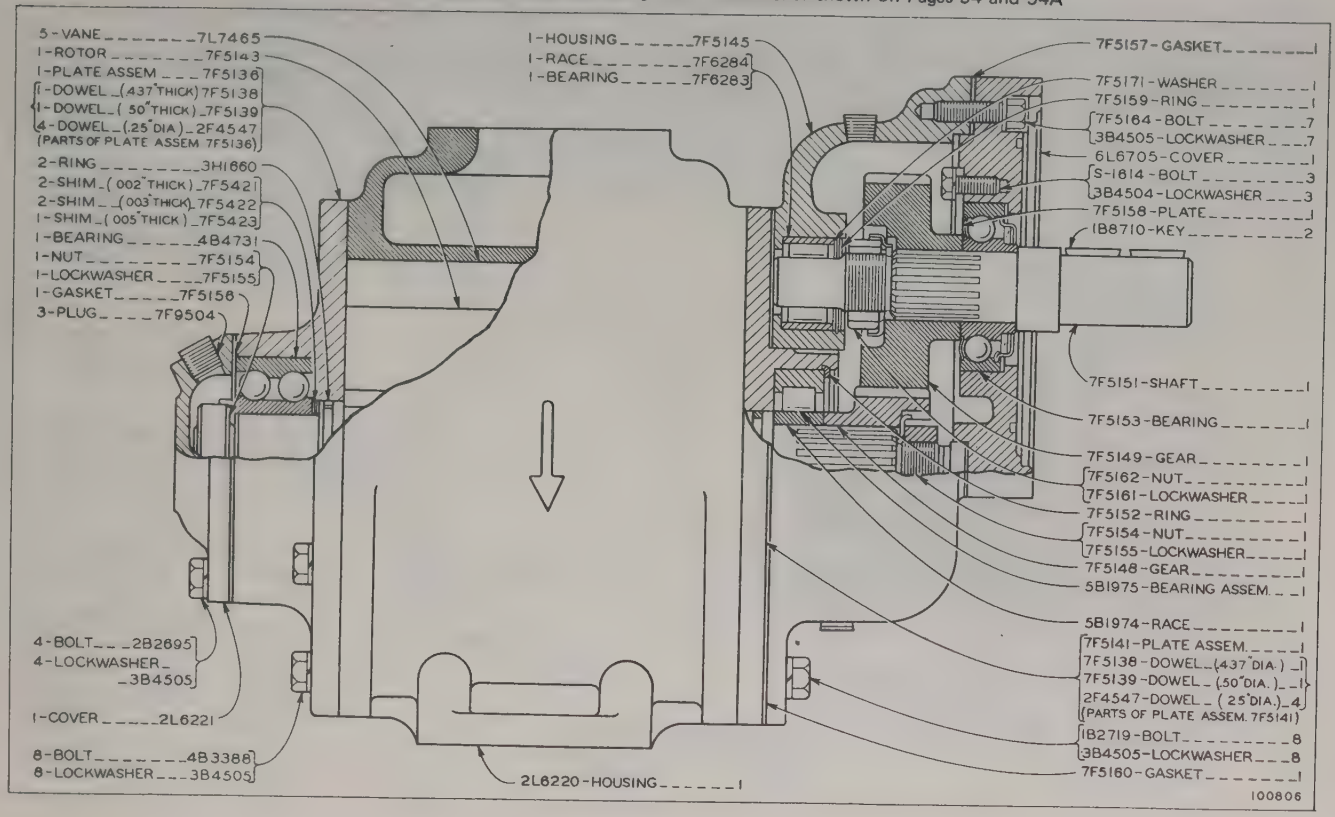

| REF. NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 4N9566 | SHAFT | 1 |
| 2 | 4N9567 | KEY | 1 |
| 3 | 9F5975 | BOLT | 8 |
| 4 | 6H3977 | SEAL | 1 |
| 5 | 8F8882 | SEAL | 1 |
| 6 | 4N4398 | PISTON ASSEM. (Includes) | 1 |
| 7 | 4N4399 | RING | 1 |
| 8 | 4N4404 | SEAT | 1 |
| 9 | 4N4405 | CLUTCH ASSEM. | 1 |
| 10 | 4N4406 | HOUSING ASSEM. (Includes) | 1 |
| 11 | 2B4602 | PLUG | 1 |
| | 4N4408 | OILER | 1 |
| 12 | 4N4407 | BUSHING | 1 |
| 13 | 4N4403 | SPRING | 1 |
| 14 | 4N4400 | RING | 1 |
| 15 | 4N4402 | SPACER | 1 |
| 16 | 520512 | RETAINER | 1 |
| 17 | S1616 | BOLT | 12 |
| | 3B4504 | LOCKWASHER | 12 |
| 18 | 4N9565 | COVER | 1 |
| 19 | 4N3411 | VALVE | 1 |
| 20 | 4N3410 | VALVE | 1 |
| 21 | 4N4393 | SEAL | 1 |
| 22 | 4N9568 | GEAR (drive-30 teeth) | 1 |

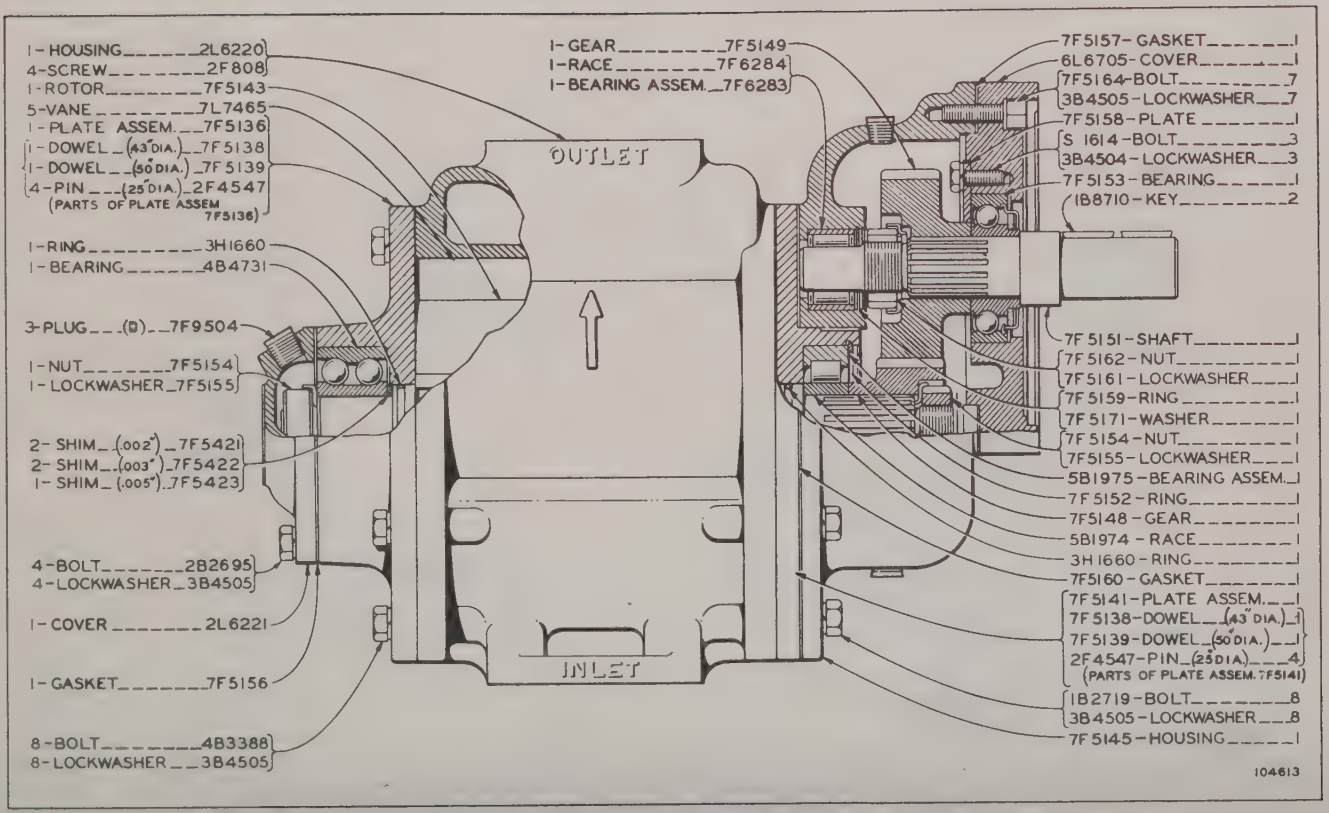
149286

4N4985 AIR START CHANGEOVER GROUP—S.A.E. Standard Engine Rotation—Field Installation
FOR USE WITH 6L6731 AIR STARTING ASSEMBLY SHOWN ON PAGE 94A

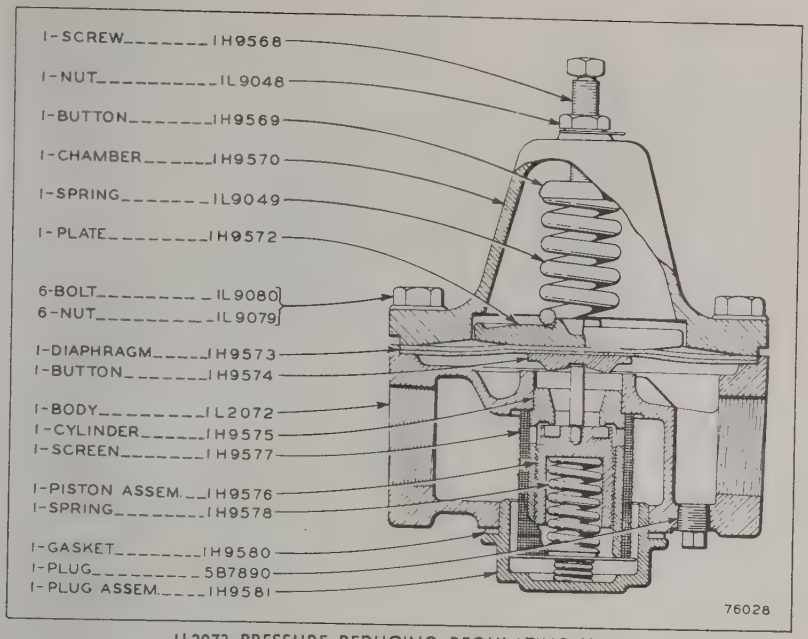
## 3H3171 AIR MOTOR—S.A.E. Standard Engine Rotation

Part of 5L1750 and 6L6731 Air Starting Motor Assemblies shown on Pages 94 and 94A



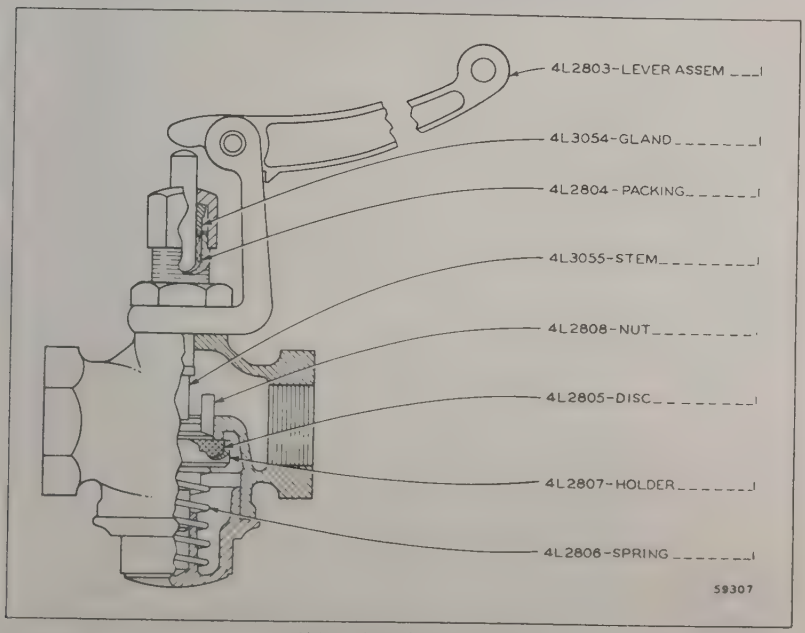



**3H3170 AIR MOTOR—S.A.E. Opposite Engine Rotation**
Part of 5L1749 & 6L6730 Air Starting Motor Assembly shown on Pages 94 & 94A



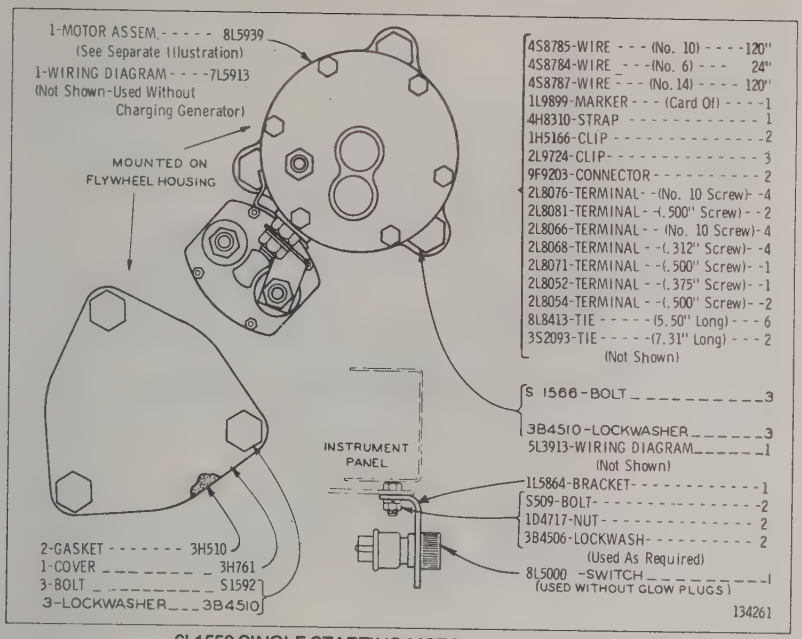

**1L2073 PRESSURE REDUCING REGULATING VALVE**

Part of 6L2801, 6L2804, 6L2803 and 6L2802 Air Starting Groups shown on Pages 90 through 93

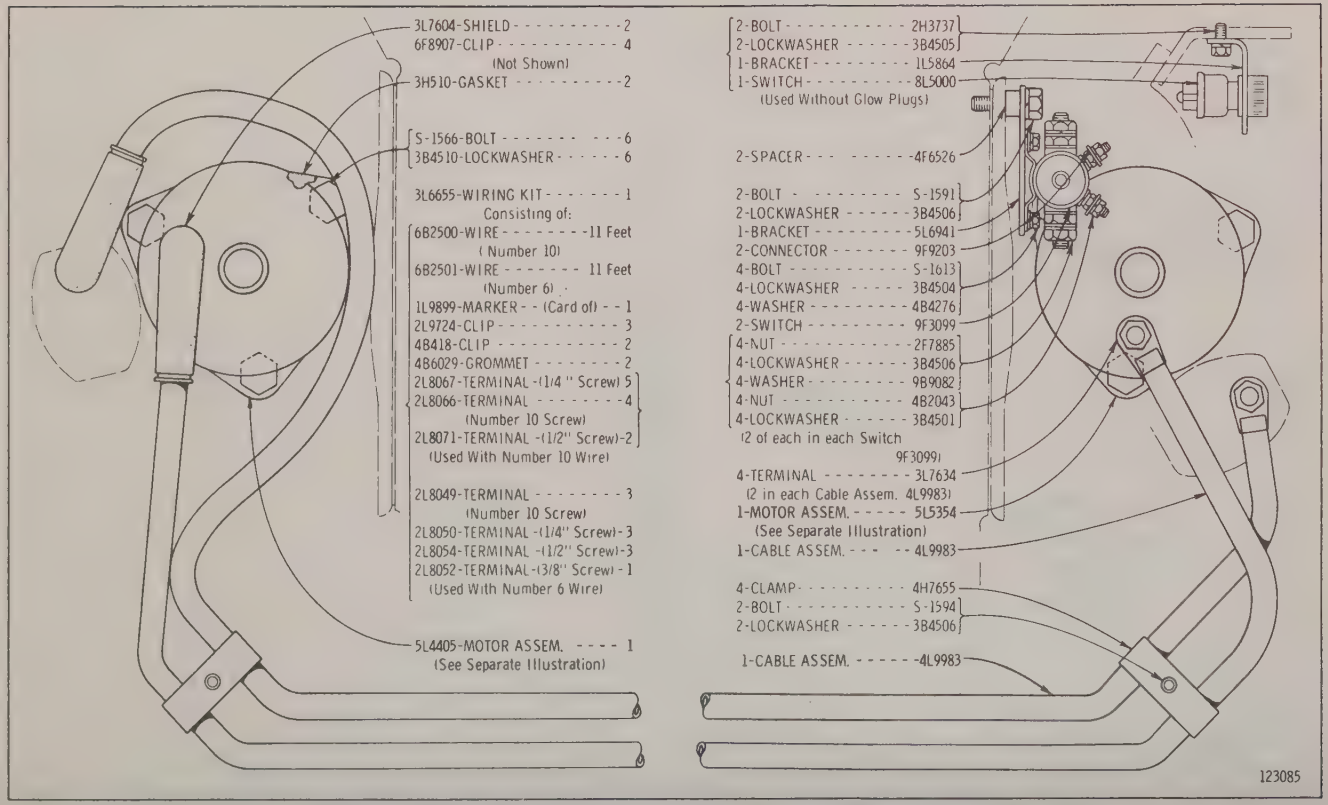



**3L9922 WHISTLE VALVE**

Part of 6L2801, 6L2804, 6L2803 and 6L2802 Air Starting Groups shown on Pages 90 through 93



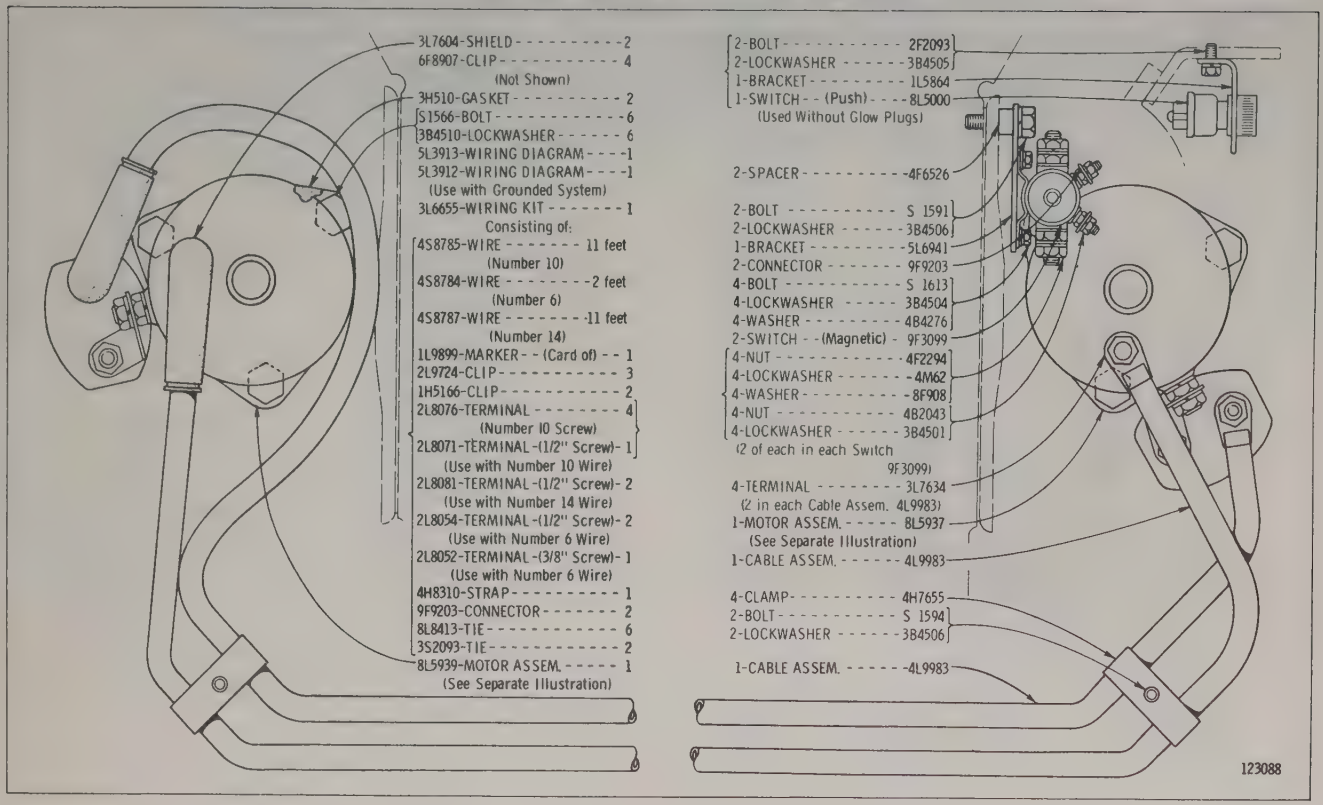

6L1550 SINGLE STARTING MOTOR GROUP—32 Volt
8L5939 Motor parts are shown on Pages 100K, 101, 102 and 102A
FOR USE WITH NORMAL LOAD AND AMBIENT TEMPERATURE
RANGING 60 DEGREES F. AND ABOVE

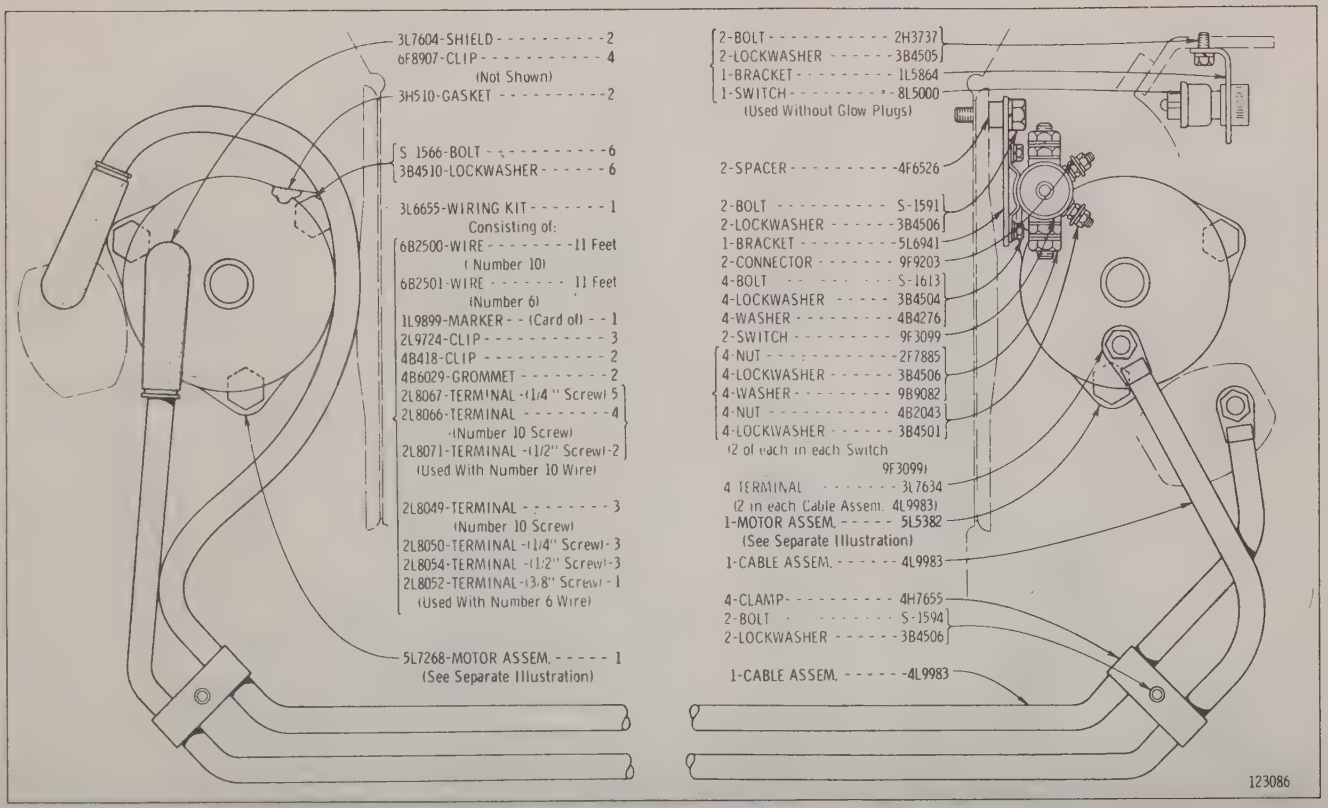



**6L2747 ELECTRIC STARTING GROUP—32 Volt—S.A.E. Standard Engine Rotation—Type 1**
**5L4405 and 5L5354 Electric Starting Motor parts are shown on Pages 100 through 100C and 100H & 100J**

## 6L2747 ELECTRIC STARTING GROUP—32 Volt—S.A.E. Standard Engine Rotation—Type 2

8L5939 and 8L5937 Motor Assembly parts are shown on Pages 100K through 103

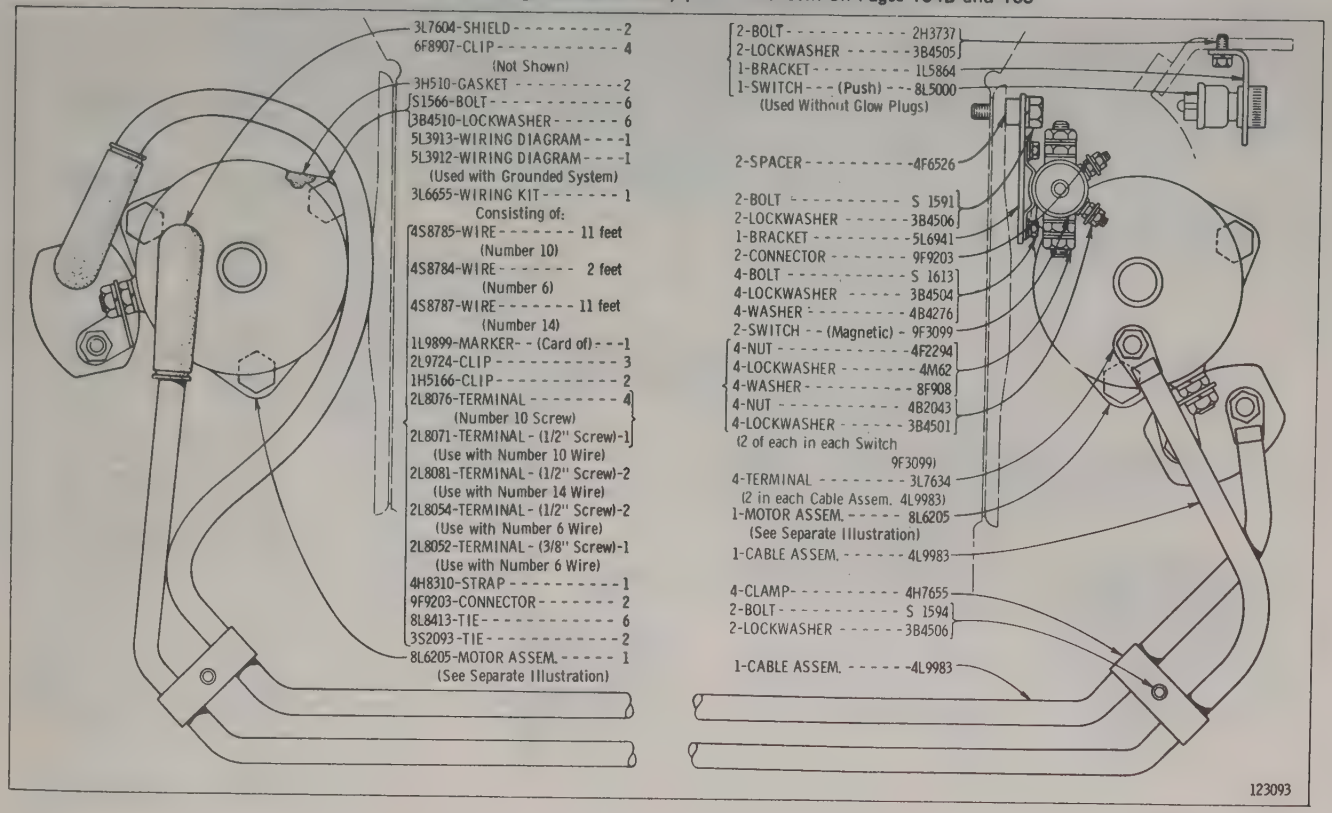


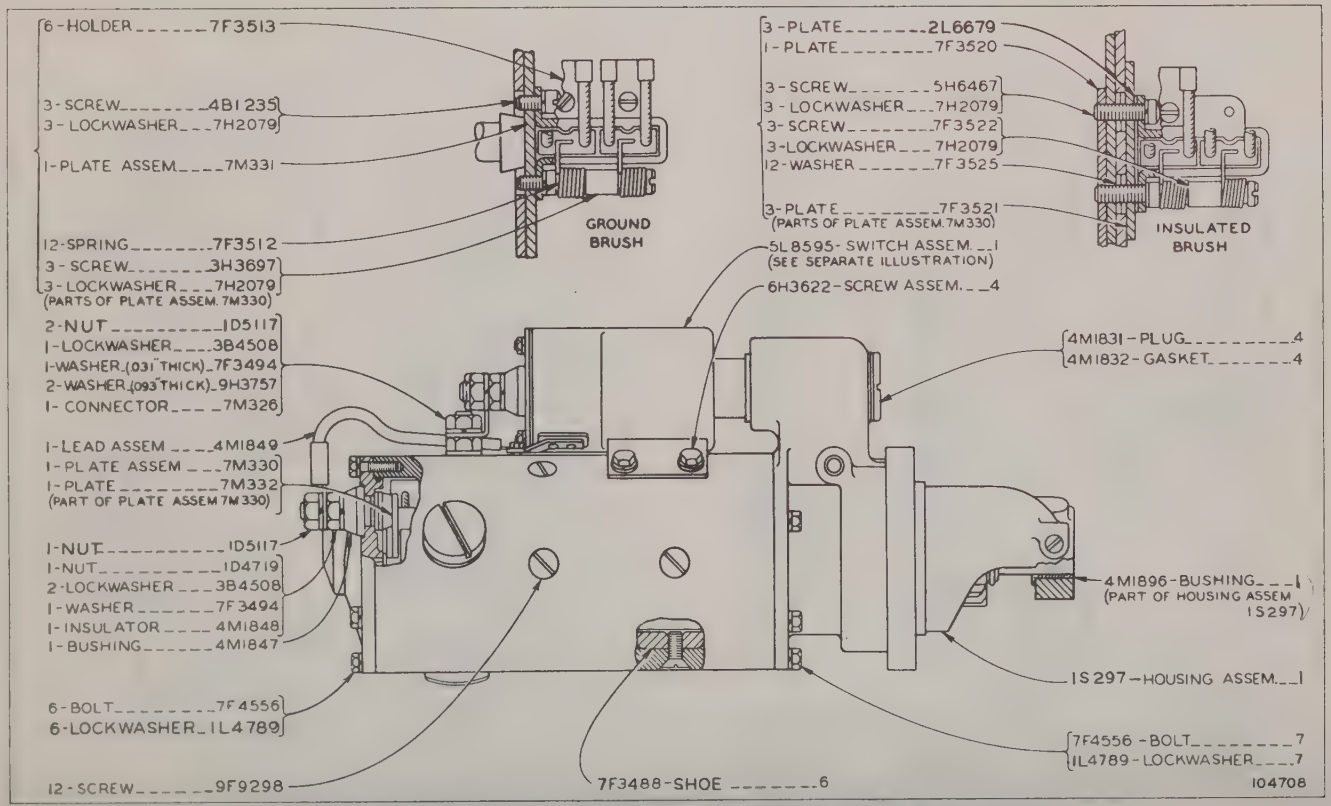



**6L2748 ELECTRIC STARTING GROUP—32 Volt—S.A.E. Opposite Standard Engine Rotation—Type 1**
**5L7268 and 5L5382 Electric Starting Motor parts are shown on Pages 104 and 104A**

## 6L2748 ELECTRIC STARTING GROUP—32 Volt—S.A.E. Opposite Standard Engine Rotation—Type 2

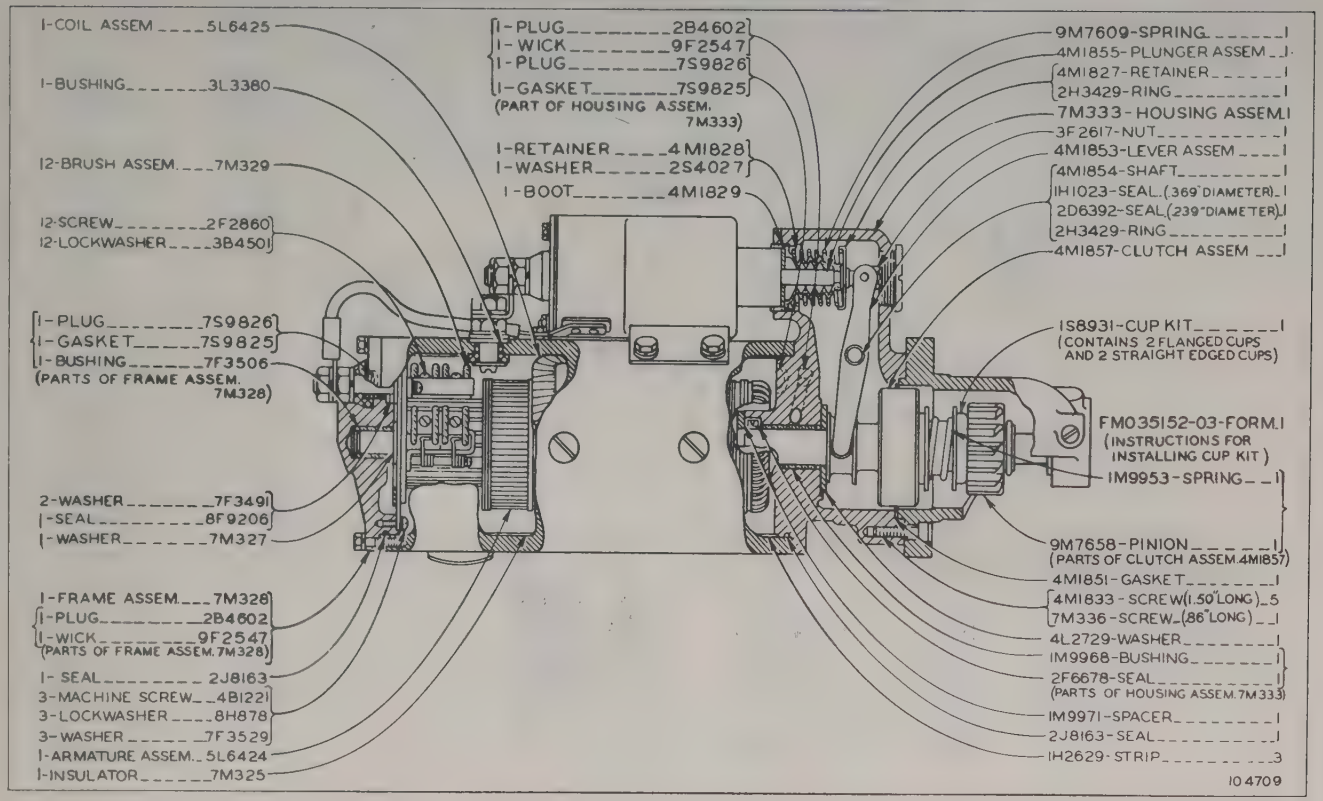
8L6205 Electric Starting Motor Assembly parts are shown on Pages 104B and 105

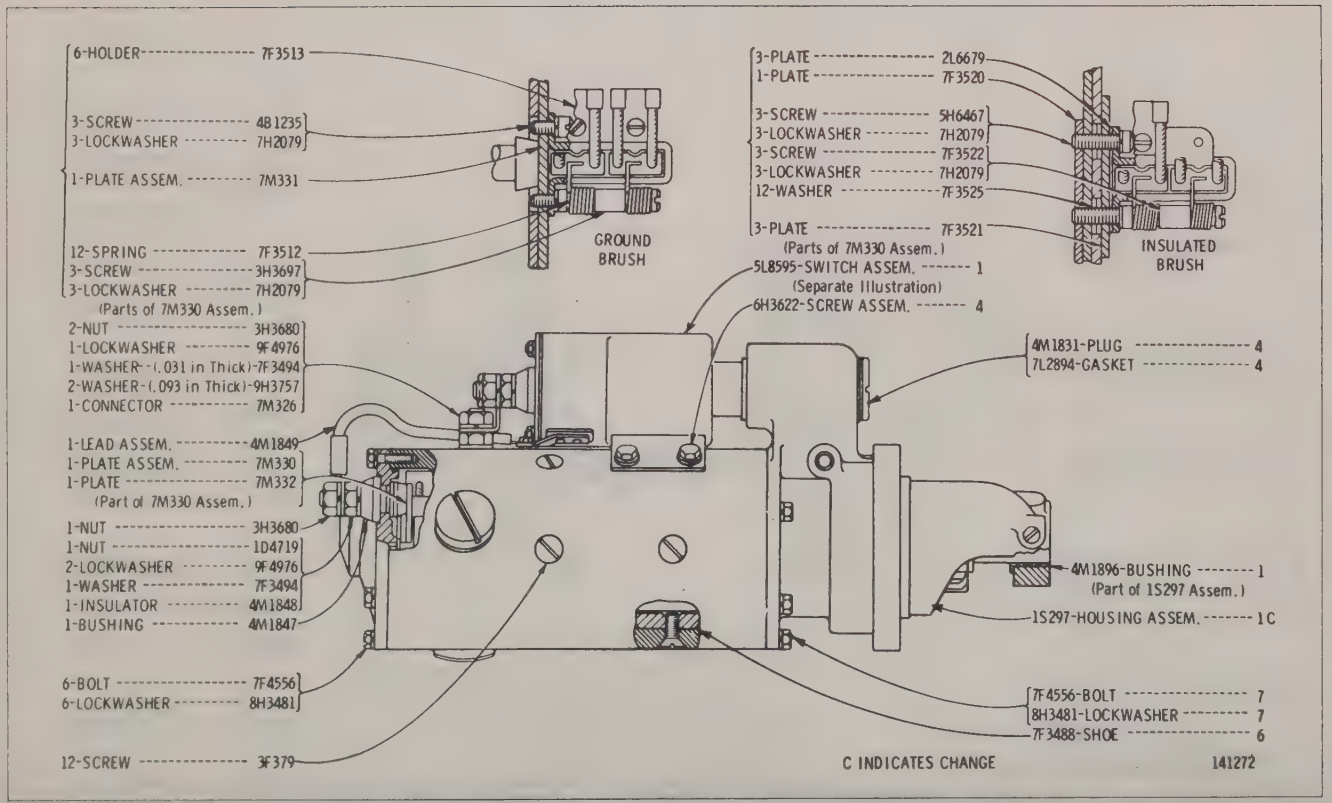





5L4405 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 1—Type 1
Replaced by 8L8204 shown on Pages 100D through 100G
Part of 6L2747 Electric Starting Group shown on Page 98. 5L8595 Switch parts are shown on Pages 106 & 106-1

5L4405 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 2—Type 1
Replaced by 8L8204 shown on Pages 100D through 100G
Part of 6L2747 Electric Starting Group shown on Page 98



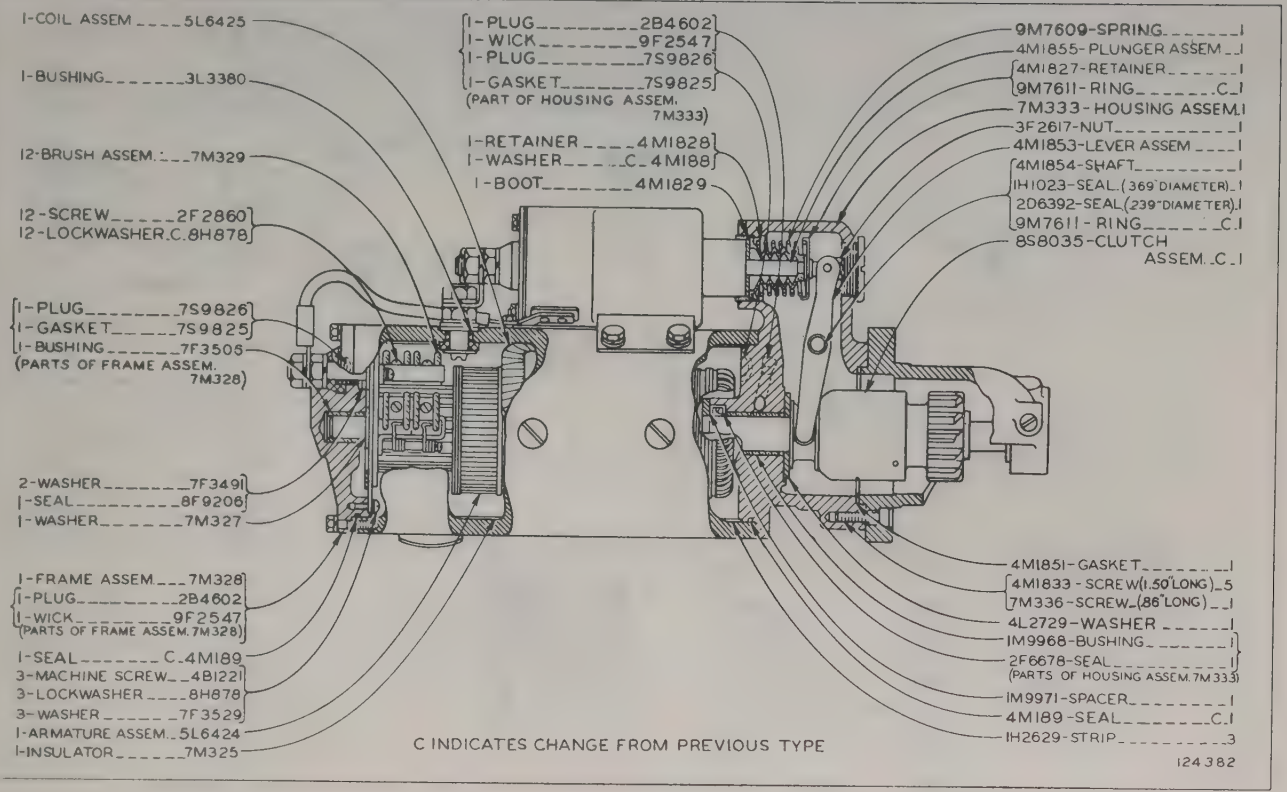


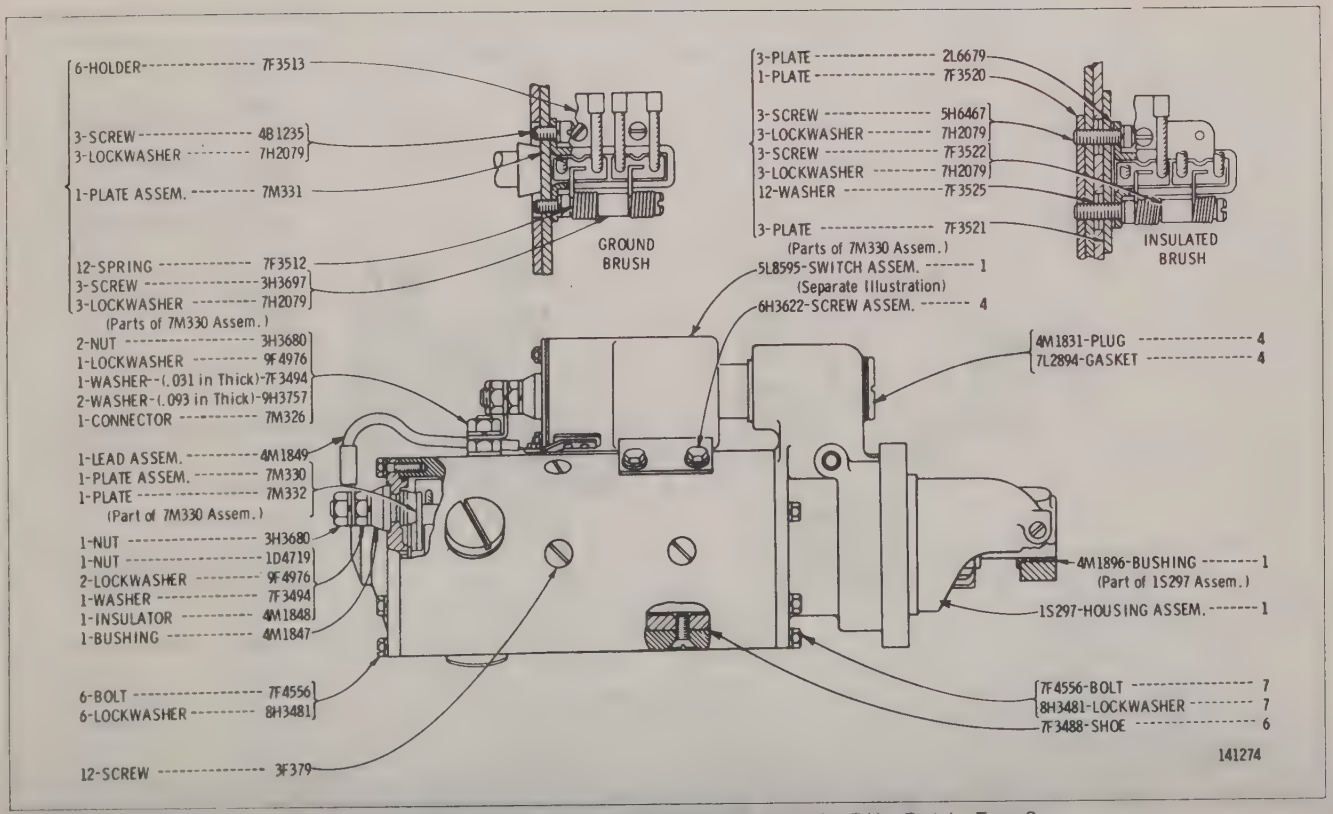

5L4405 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 1—Type 2
Replaced by 8L8204 shown on Pages 100D through 100G
Part of 6L2747 Electric Starting Group shown on Page 98. 5L8595 Switch parts are shown on Pages 106 & 106-1

## 5L4405 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 2—Type 2

Replaced by 8L8204 shown on Pages 100D through 100G

Part of 6L2747 Electric Starting Group shown on Page 98



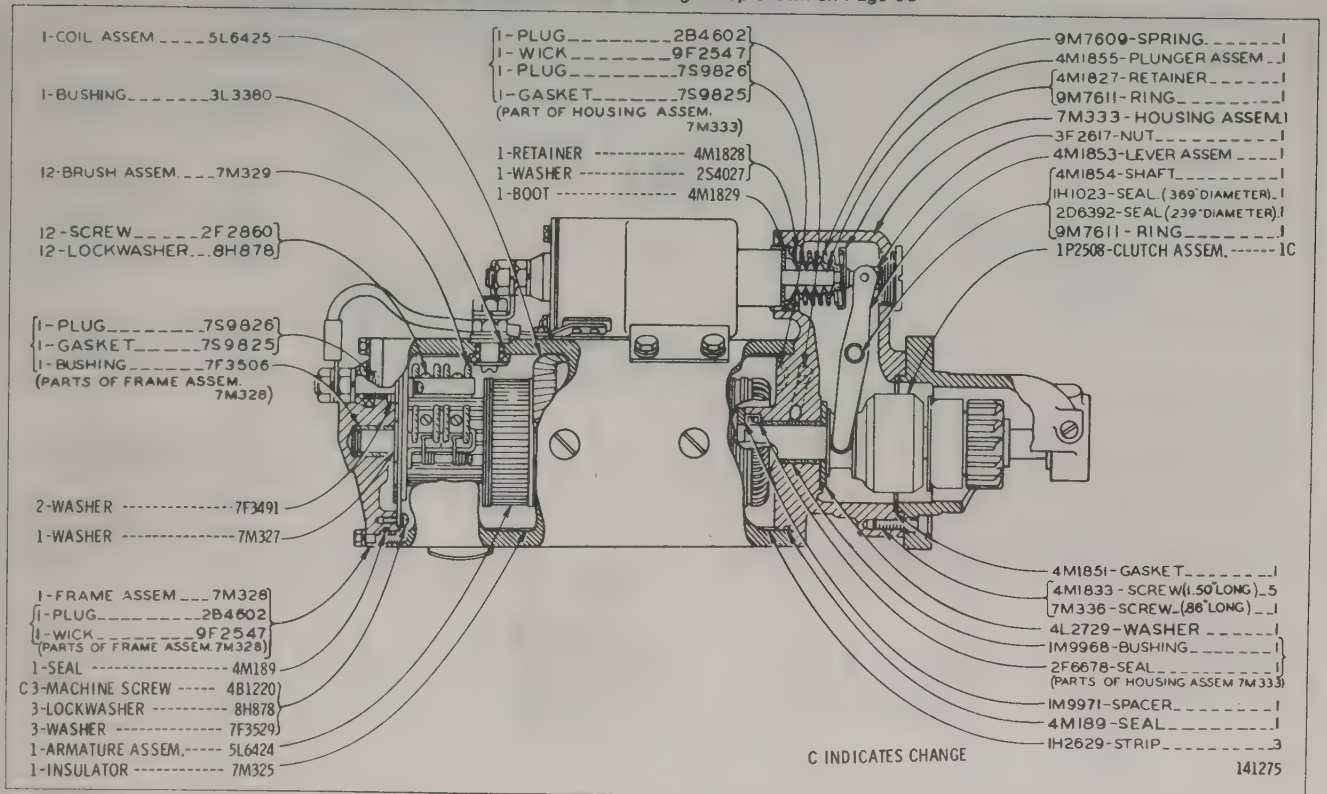


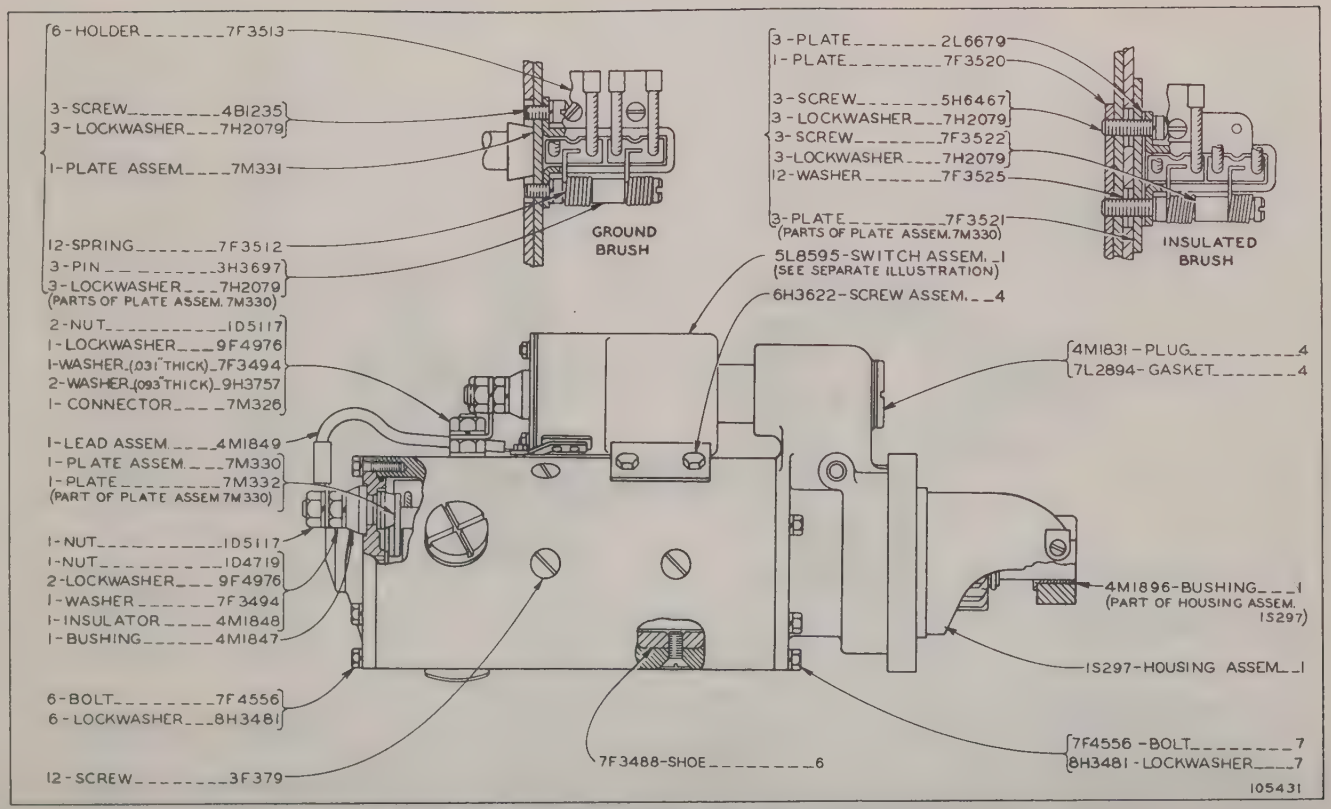

5L4405 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 1—Type 3
Replaced by 8L8204 shown on Pages 100D & 100G
Part of 6L2747 Electric Starting Group shown on Page 98. 5L8595 Switch parts are shown on Pages 106 & 106-1

## 5L4405 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 2—Type 3

Replaced by 8L8204 shown on Pages 100D through 100G

Part of 6L2747 Electric Starting Group shown on Page 98

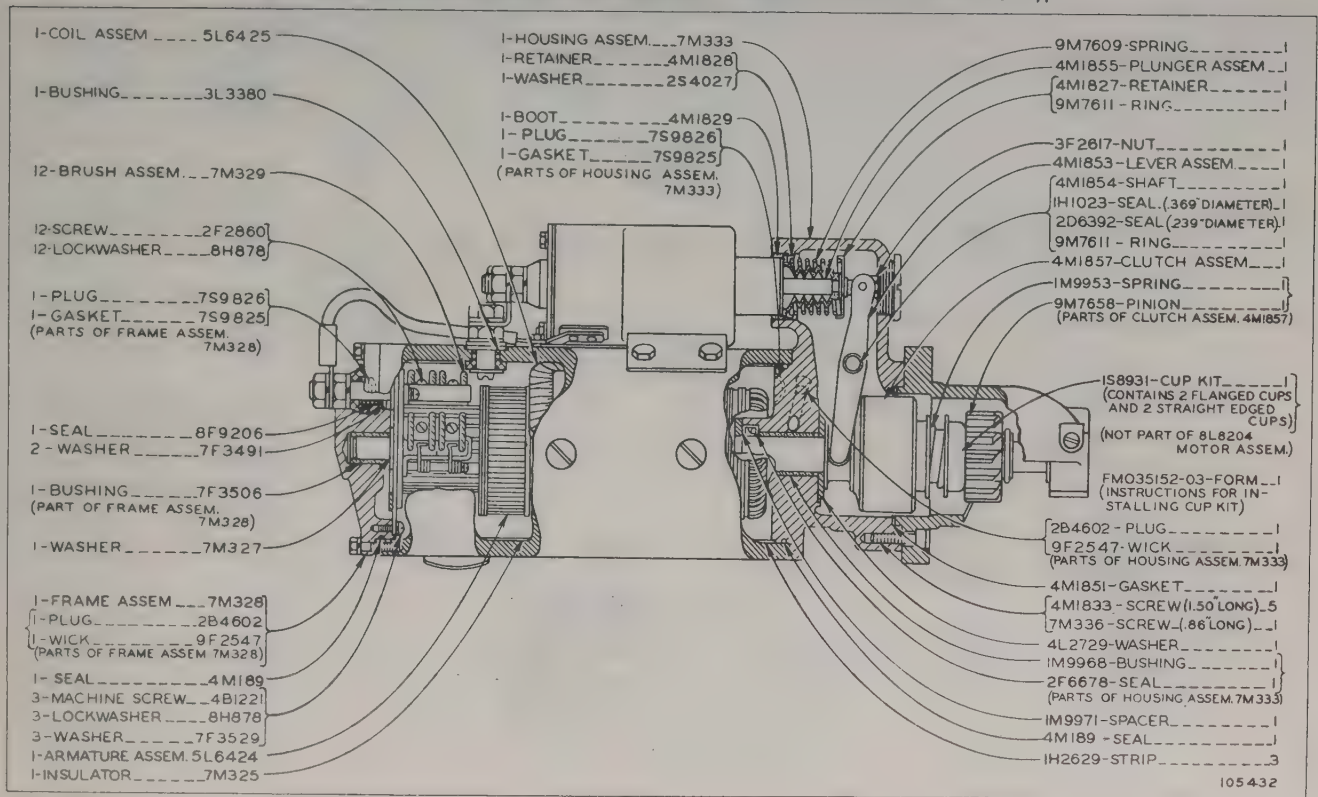


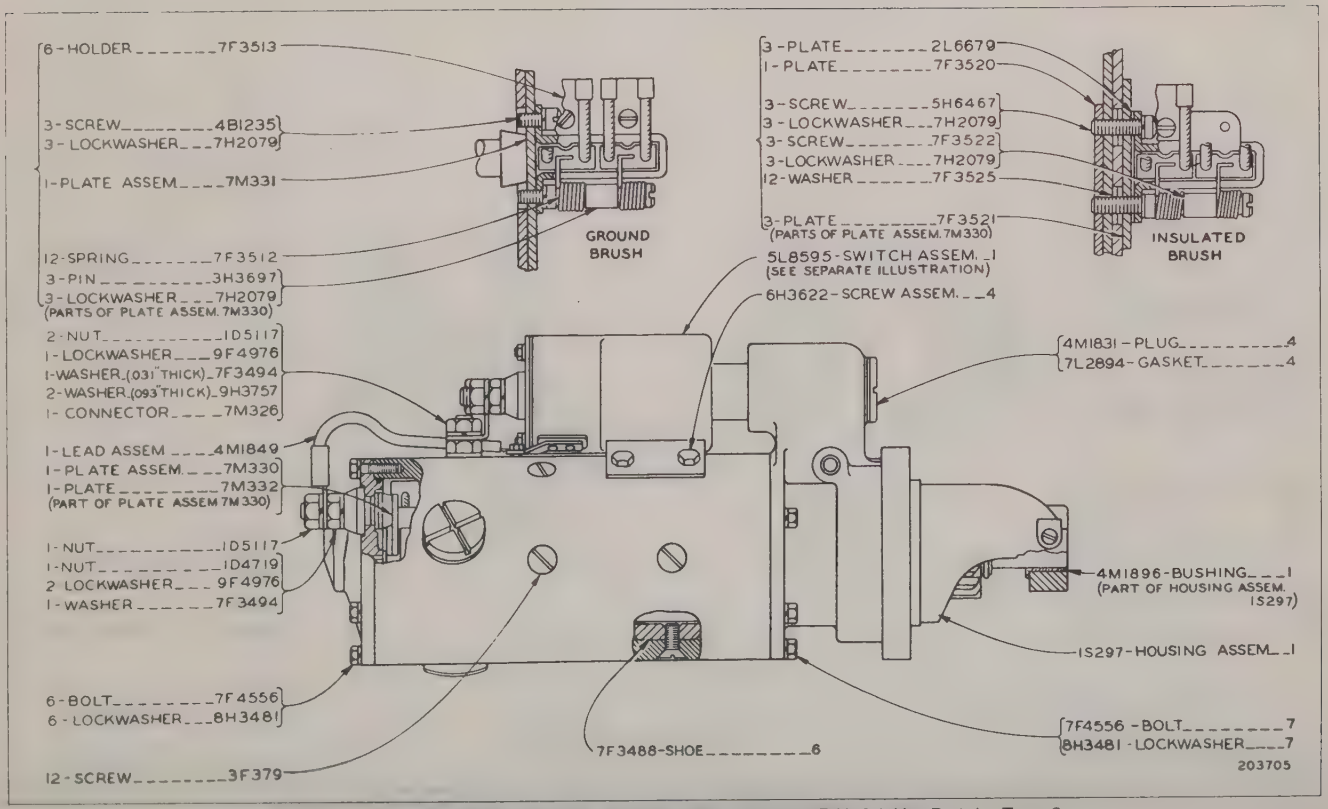



8L8204 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H. & L.H.—Part 1—Type 1

5L8595 Switch parts are shown on Page 106

## 8L8204 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H. & L.H.—Part 2—Type 1

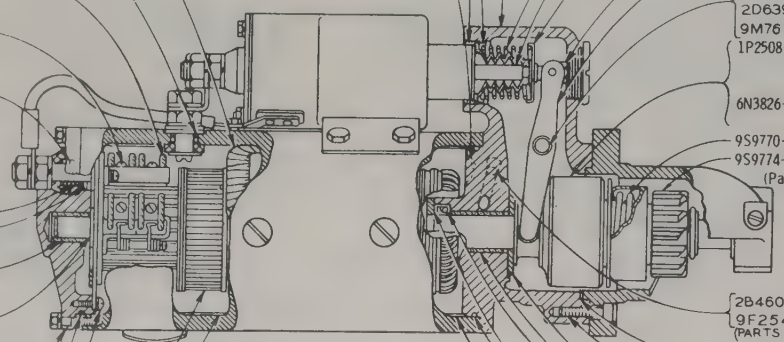





8L8204 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H. & L.H.—Part 1—Type 2

5L8595 Switch parts are shown on Pages 106 & 106-1

## 8L8204 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H. & L.H.—Part 2—Type 2



1-COIL ASSEM ____ 5L6425

1-BUSHING_____3L3380

12-BRUSH ASSEM.___7M329

12 SCREW_____2F2860
12 LOCKWASHER____8H878

1-PLUG_____7S9826
1-GASKET_____7S9825
(PARTS OF FRAME ASSEM 7M328)

1-SEAL_____8F9206
2 WASHER_____7F3491

1-BUSHING_____7F3506
(PART OF FRAME ASSEM. 7M328)

1-WASHER_____7M327

1-FRAME ASSEM___7M328
1 PLUG_____2B4602
1 WICK_____9F2547
(PARTS OF FRAME ASSEM. 7M328)

1-SEAL_____4M189
3-MACHINE SCREW__4B122
3-LOCKWASHER____8H878
3-WASHER_____7F3529
1 ARMATURE ASSEM 5L6424
1-INSULATOR_____7M325

1-HOUSING ASSEM___7M333
1-RETAINER_____4M1828
1-WASHER_____2S4027

1-BOOT_____4M1829
1-PLUG_____7S9826
1-GASKET_____7S9825
(PARTS OF HOUSING ASSEM. 7M333)

THE FOLLOWING REPAIR KITS ARE AVAILABLE FOR 1P2508 DRIVE ASSEM.:
9S9825-KIT -----(cup) -------- 1
4S9459-KIT ----(washer) ------ 1

▲ NOT PART OF 8L8204 STARTING MOTOR ASSEM.
GMG00012-FORM ---------- 1
(Instructions For Installing Electric Starting Motor)

9M7609-SPRING_____1
4M1855-PLUNGER ASSEM__1
4M1827-RETAINER_____1
9M7611-RING_____1

3F2817-NUT_____1
4M1853-LEVER ASSEM____1
4M1854-SHAFT_____1
1H1023-SEAL (.369" DIAMETER)_1
2D6392-SEAL (.239" DIAMETER)_1
9M7611-RING_____1

1P2508-DRIVE ASSEM. -------- 1C
(800066)
-OR-
6N3826-DRIVE ASSEM. -------- 1▲C
(480321)

9S9770-SPRING ---------- 1
9S9774-PINION ---------- 1
(Parts of 1P2508 Assem.)

2B4602-PLUG_____1
9F2547-WICK_____1
(PARTS OF HOUSING ASSEM 7M333)

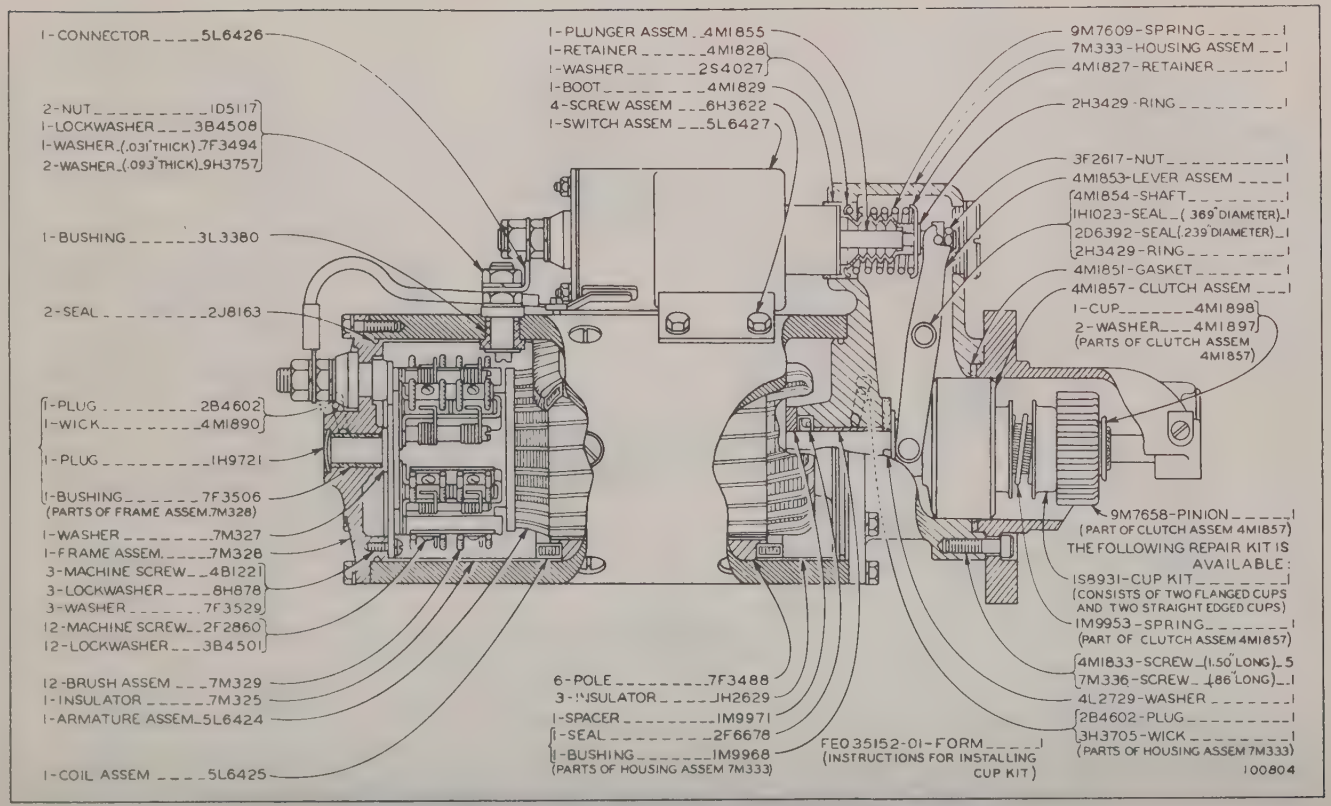
4M1851-GASKET_____1
4M1833-SCREW (1.50" LONG)_5
7M336-SCREW (.86" LONG)__1

4L2729-WASHER_____1
1M9968-BUSHING_____1
2F6678-SEAL_____1
(PARTS OF HOUSING ASSEM 7M333)

1M9971-SPACER_____1
4M189-SEAL_____1
1H2629-STRIP_____3

C INDICATES CHANGE

152588

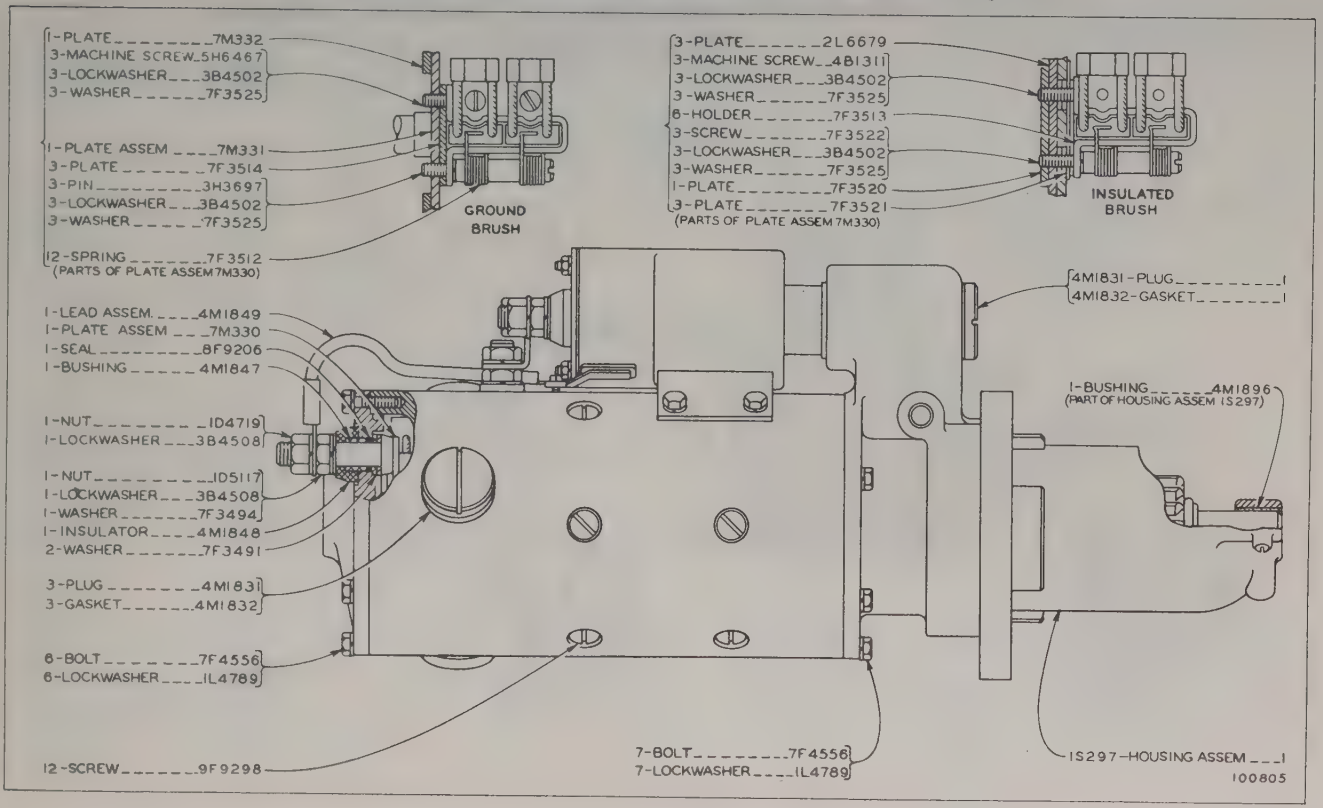


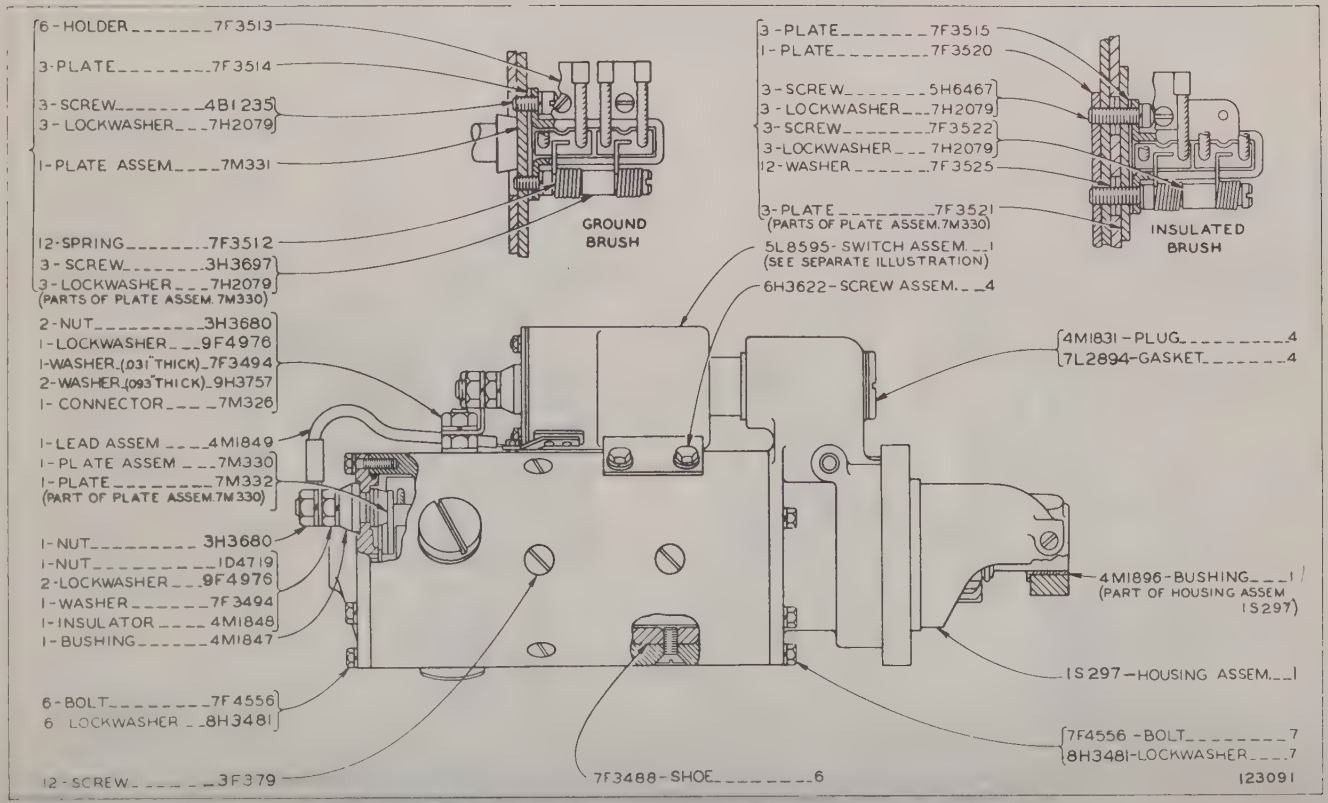

**5L5354 ELECTIRC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 1**

Part of 6L2747 Electric Starting Group shown on Page 98. Only separate parts serviced When complete Assembly is required order 8L8204 shown on Pages 100D through 100G

## 5L5354 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 2

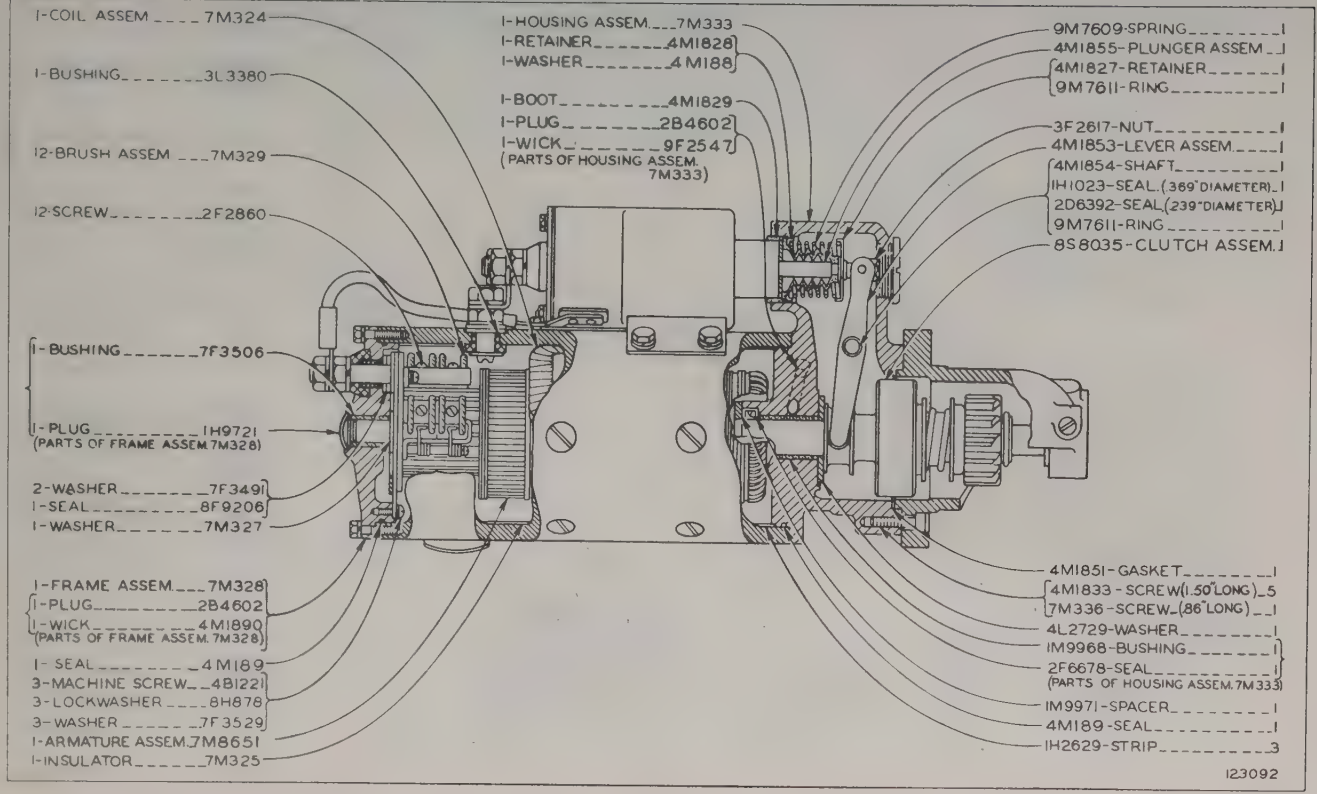
Part of 6L2747 Electric Starting Group shown on Page 98. Only separate parts serviced When complete Assembly is required order 8L8204 shown on Pages 100D through 100G

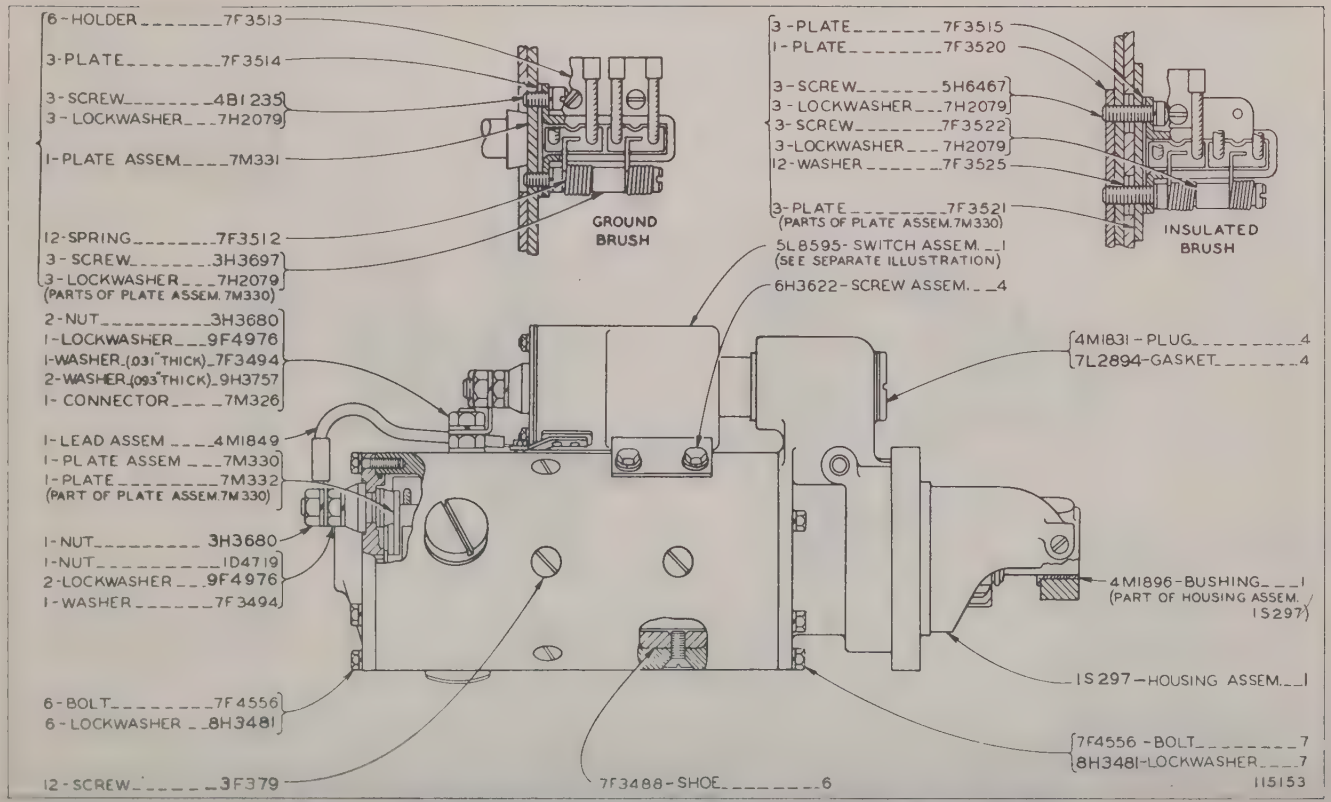





8L5939 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 1—Type 1
Replaced by 8L5937 shown on Pages 102B through 103
Part of 6L2747 and 6L1550 Electric Starting Groups shown on Pages 98A and 106G
5L8595 Switch parts are shown on Pages 106 & 106-1

8L5939 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 2—Type 1
Replaced by 8L5937 shown on Pages 102B through 102E
Part of 6L2747 and 6L1550 Electric Starting Groups shown on Pages 98A and 106G



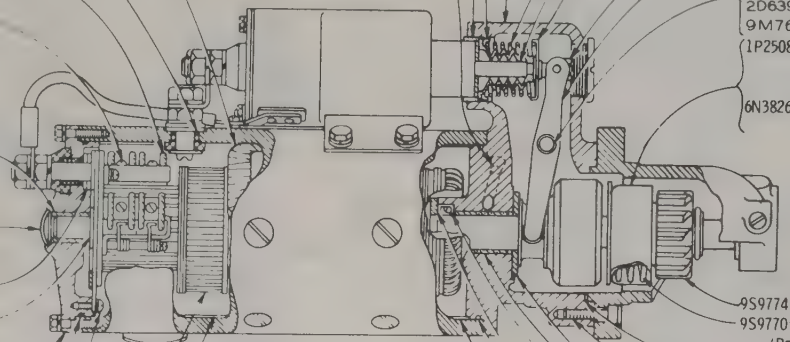



8L5939 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 1—Type 2
Replaced by 8L5937 shown on Pages 102B through 103
Part of 6L2747 and 6L1550 Electric Starting Groups shown on Pages 98A and 106G
5L8595 Switch parts are shown on Page 106 & 106-1

# 8L5939 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 2—Type 2

Replaced by 8L5937 shown on Pages 102B through 103

Part of 6L2747 and 6L1550 Electric Starting Groups shown on Pages 98A and 106G



1-COIL ASSEM ____ 7M324

1-BUSHING _____ 3L3380

12 BRUSH ASSEM ____ 7M329

12 SCREW _____ 2F2860

THE FOLLOWING REPAIR KIT IS AVAILABLE:
3N3763-KIT ----- (terminal) --- 1
(Includes Bushings, Insulator and Washer)

1 BUSHING _____ 7F3506

1-PLUG _____ 1H9721
(Part of 7M328 Assem.)

2-WASHER _____ 7F3491

1-WASHER _____ 7M327

1-FRAME ASSEM ___ 7M328
1-PLUG _____ 2B4602
1-WICK _____ 4M1890
(PARTS OF FRAME ASSEM 7M328)

1 SEAL _____ 4M189

C3 MACHINE SCREW 4B1220
3 LOCKWASHER ___ 8H878
3-WASHER _____ 7F3529

1 ARMATURE ASSEM 7M8651

1-INSULATOR _____ 7M325

1-HOUSING ASSEM. ___ 7M333
1-RETAINER _____ 4M1828
1-WASHER _____ 4M188

1-BOOT _____ 4M1829
1-PLUG _____ 2B4602
1-WICK _____ 9F2547
(PARTS OF HOUSING ASSEM 7M333)

9M7609-SPRING _____ 1
4M1855-PLUNGER ASSEM ___ 1
4M1827-RETAINER _____ 1
9M7611-RING _____ 1

3F2617-NUT _____ 1
4M1853-LEVER ASSEM ____ 1

4M1854-SHAFT _____ 1
1H1023-SEAL (.369" DIAMETER) 1
2D6392-SEAL (.239" DIAMETER) 1
9M7611-RING _____ 1

1P2508-DRIVE ASSEM. ------ 1 C
(800066)
-OR-
6N3826-DRIVE ASSEM. ----- 1 ▲C
(480321)

▲ NOT PART OF 8L5939 MOTOR ASSEM.

9S9774-PINION ---------- 1
9S9770-SPRING ---------- 1
(Parts of 1P2508 Assem.)

4M1851-GASKET _____ 1
4M1833-SCREW (1.50" LONG) 5
7M336-SCREW (.86" LONG) ___ 1

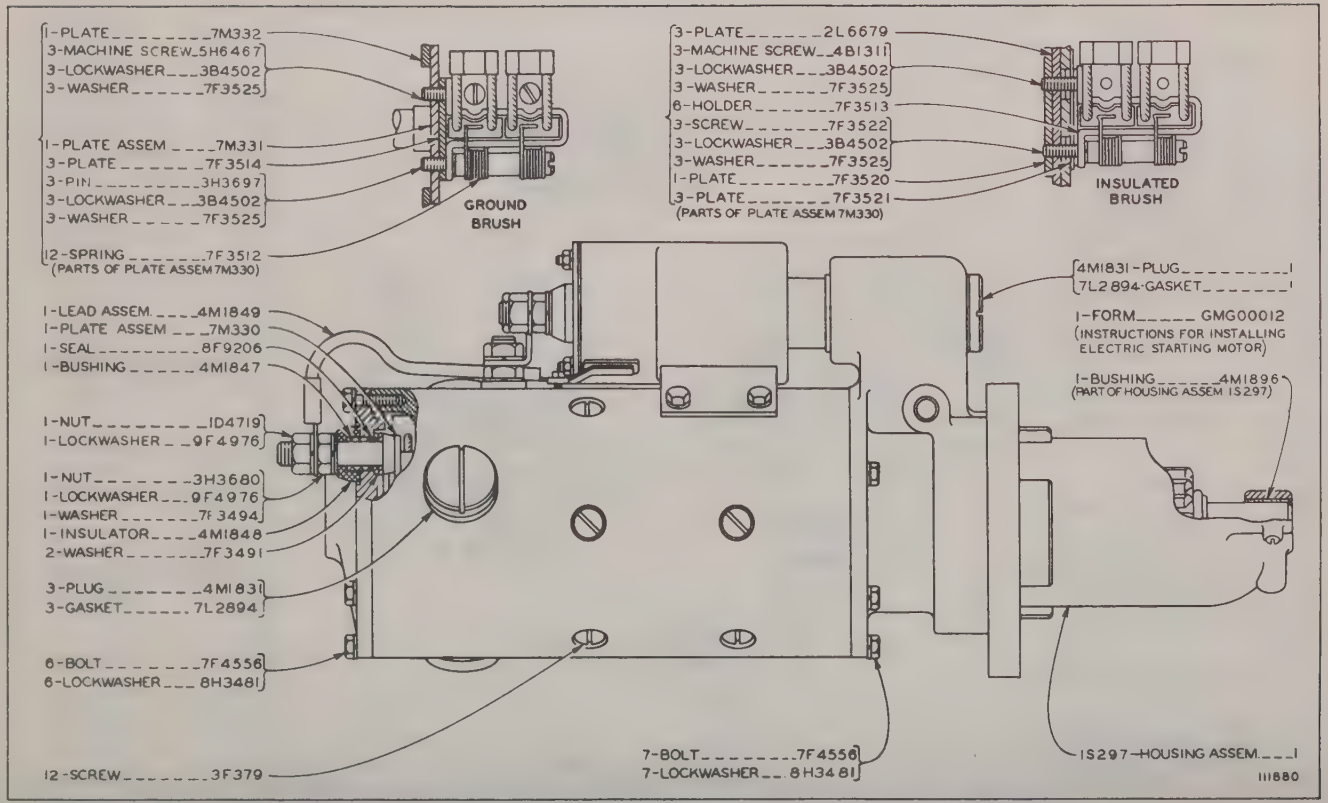
4L2729-WASHER _____ 1
1M9968-BUSHING _____ 1
2F6678-SEAL _____ 1
(PARTS OF HOUSING ASSEM 7M333)

1M9971 SPACER _____ 1
4M189-SEAL _____ 1
1H2629-STRIP _____ 3

THE FOLLOWING REPAIR KITS ARE AVAILABLE FOR 1P2508 DRIVE ASSEM.:
9S9825-KIT ---(cup) ---------- 1
(Includes Washer & Cup)
4S9459-KIT ------(washer) ----- 1
(Includes Washers & Retainer Cup)

C INDICATES CHANGE

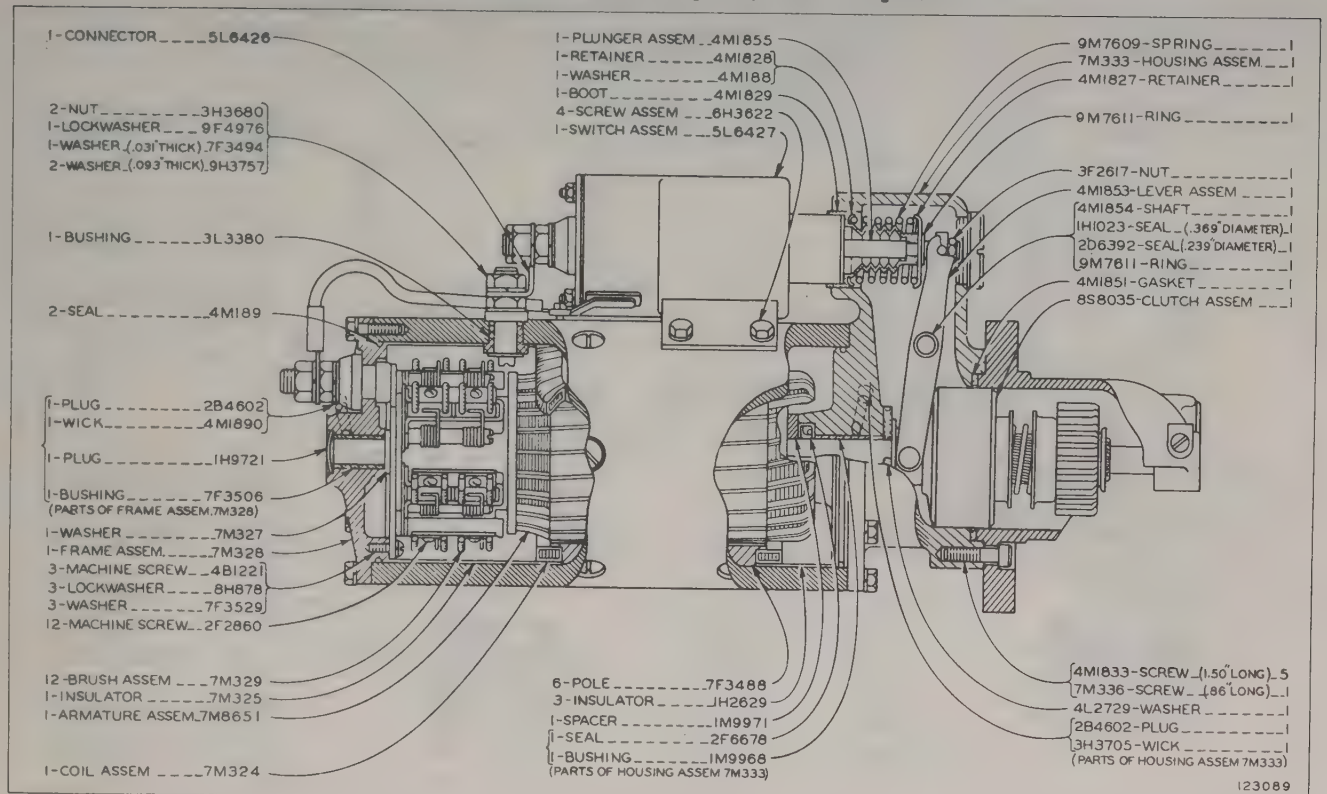
152587

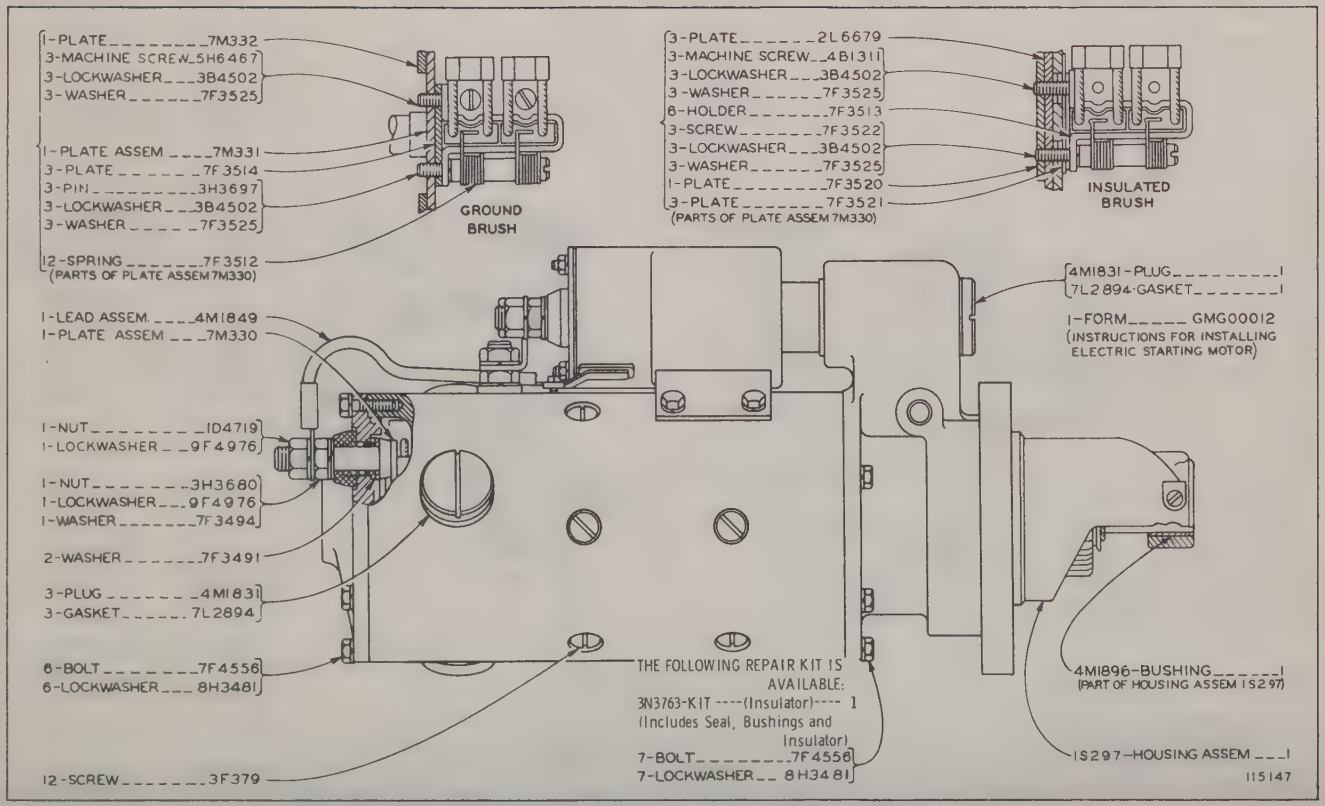



8L5937 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 1—Type 1
Part of 6L2747 Electric Starting Group shown on Page 98A

## 8L5937 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 2—Type 1

Part of 6L2747 Electric Starting Group shown on Page 98A



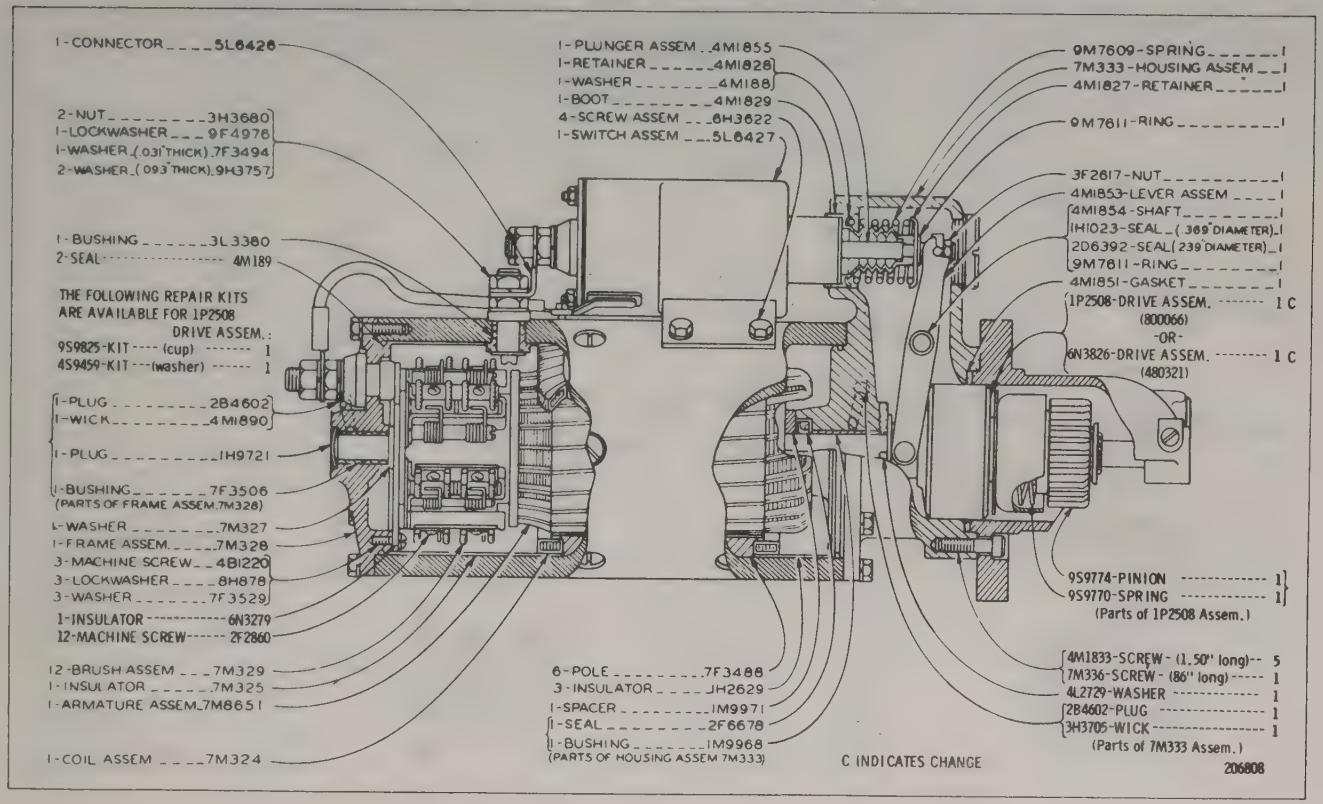


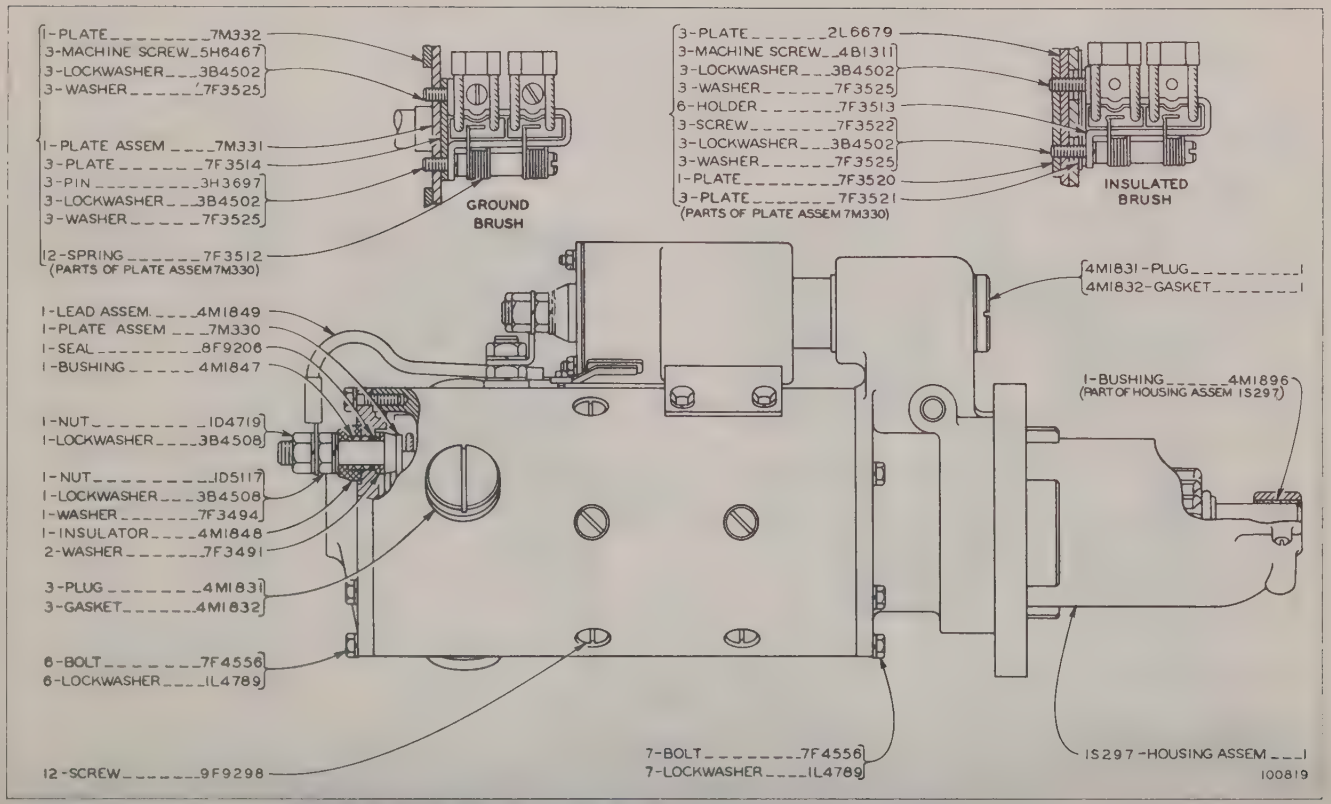

8L5937 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 1—Type 2

Part of 6L2747 Electric Starting Group shown on Page 98A

## 8L5937 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 2—Type 2

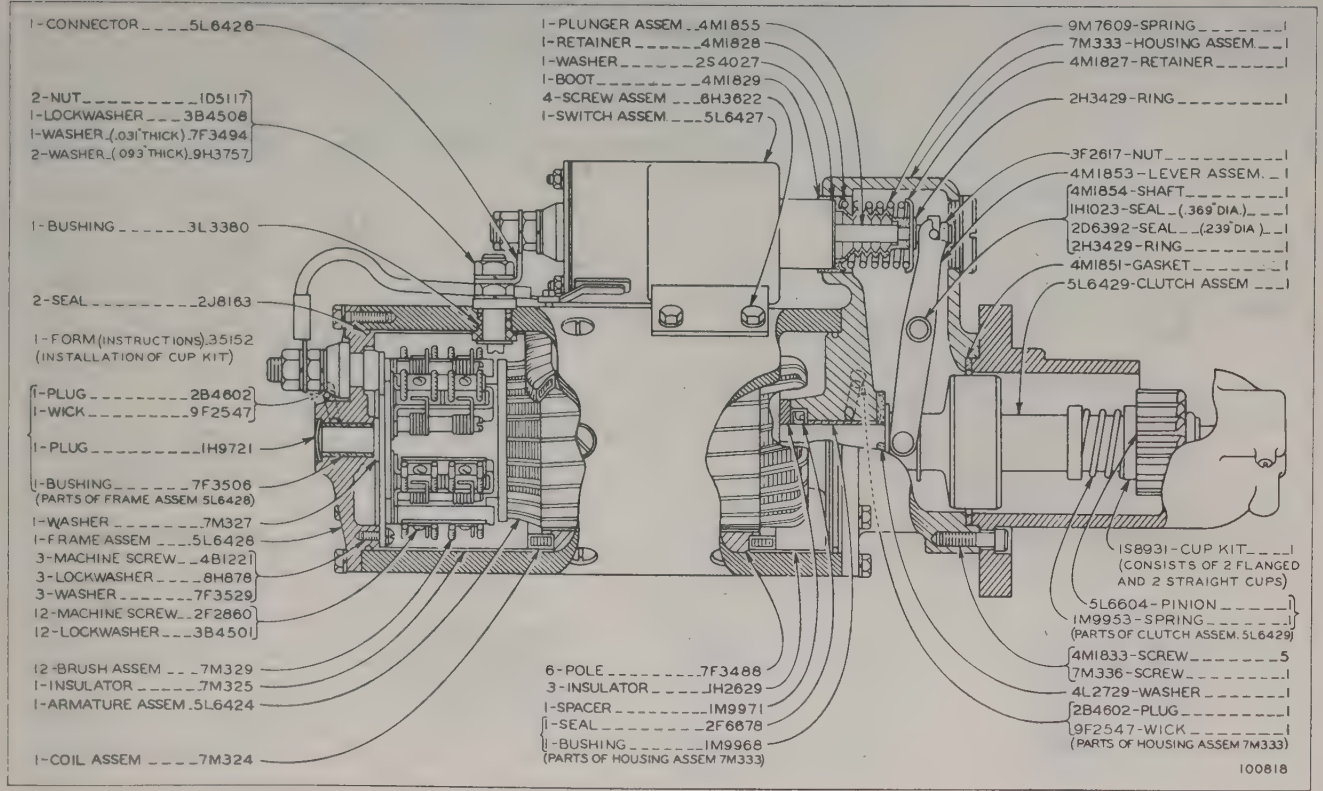
Part of 6L2747 Electric Starting Group shown on Page 98A

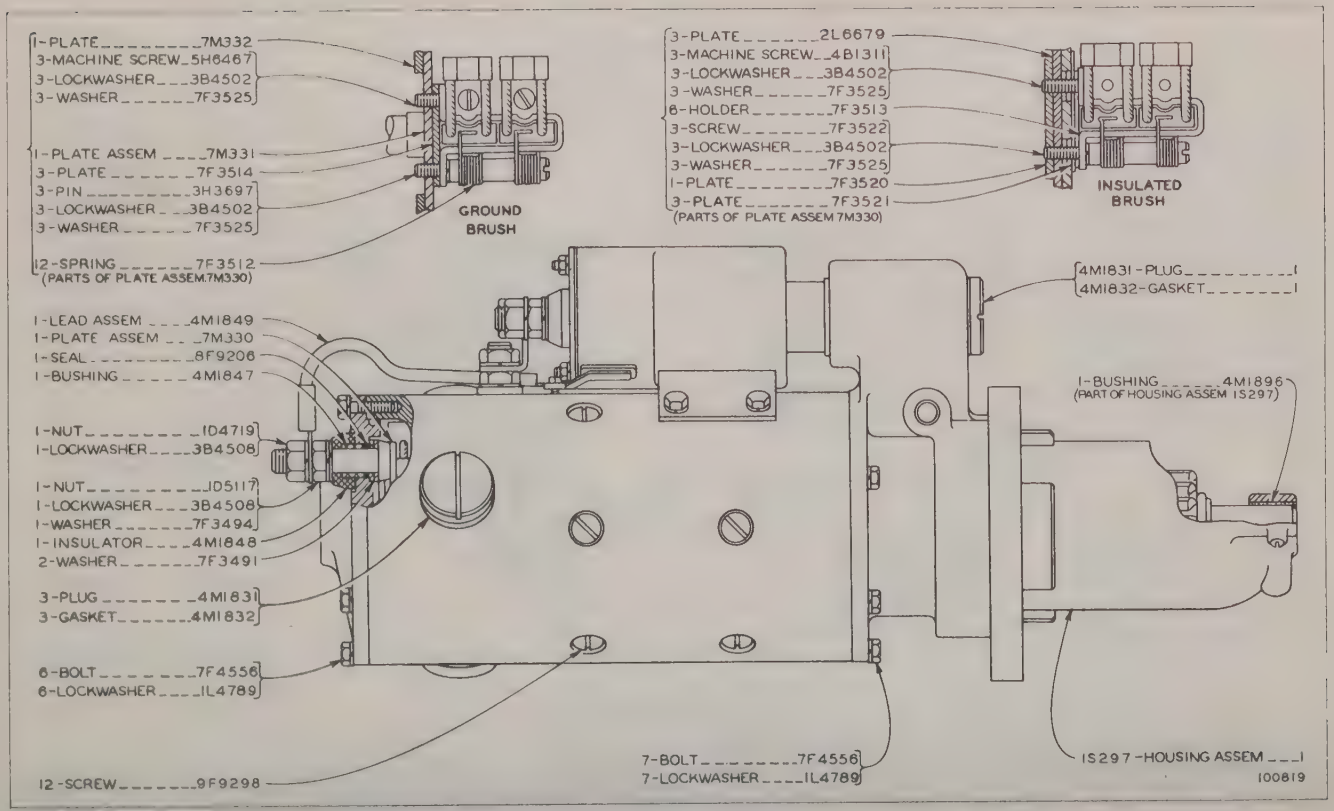





5L7268 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 1—Type 1
5L5382 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 1—Type 1
Part of 6L2748 Electric Starting Group shown on Page 98B
Only separate parts serviced. When complete Assembly is required order 8L6205 shown on Pages 104B and 105

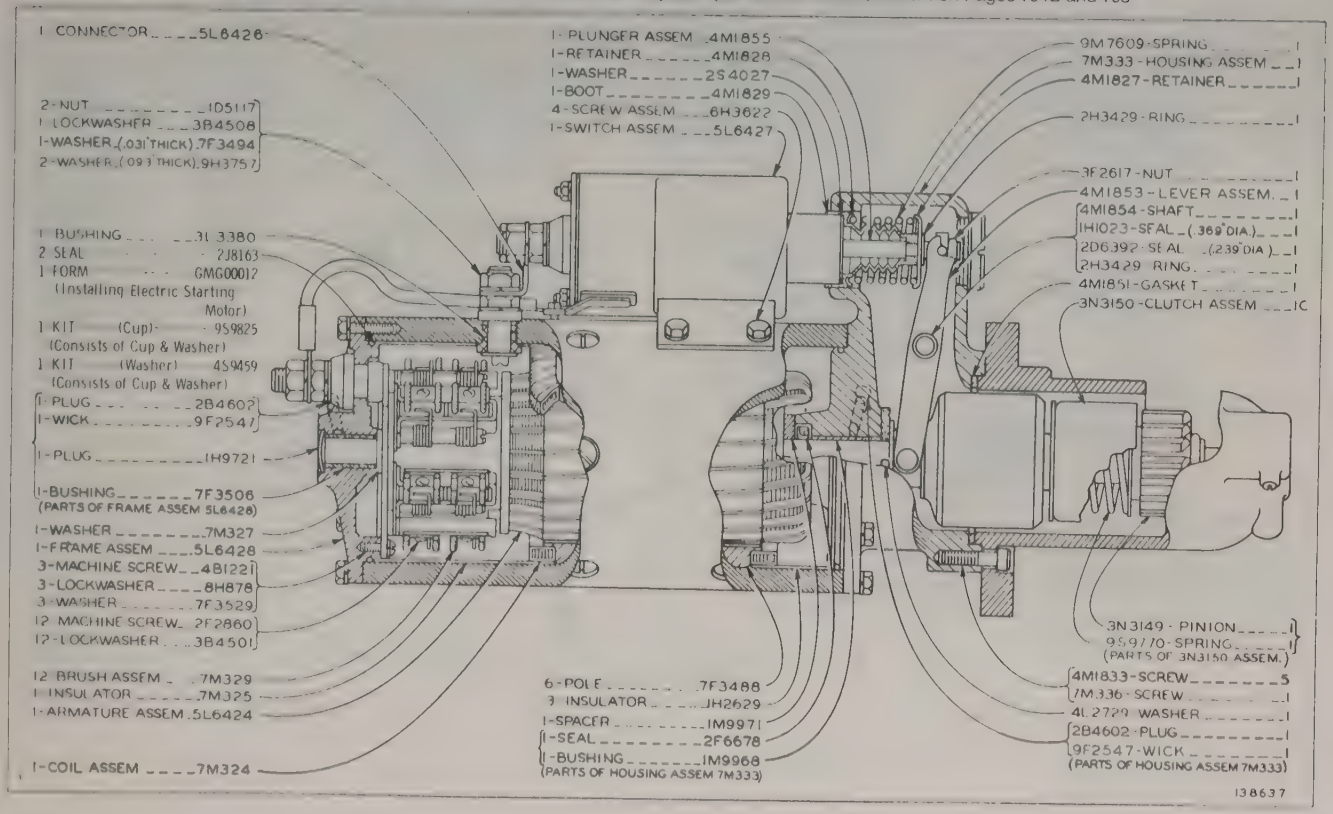
5L7268 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 2—Type 1
5L5382 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 2—Type 1
Part of 6L2748 Electric Starting Group shown on Page 98B
Only separate parts serviced. When complete Assembly is required order 8L6205 shown on Pages 104B and 105

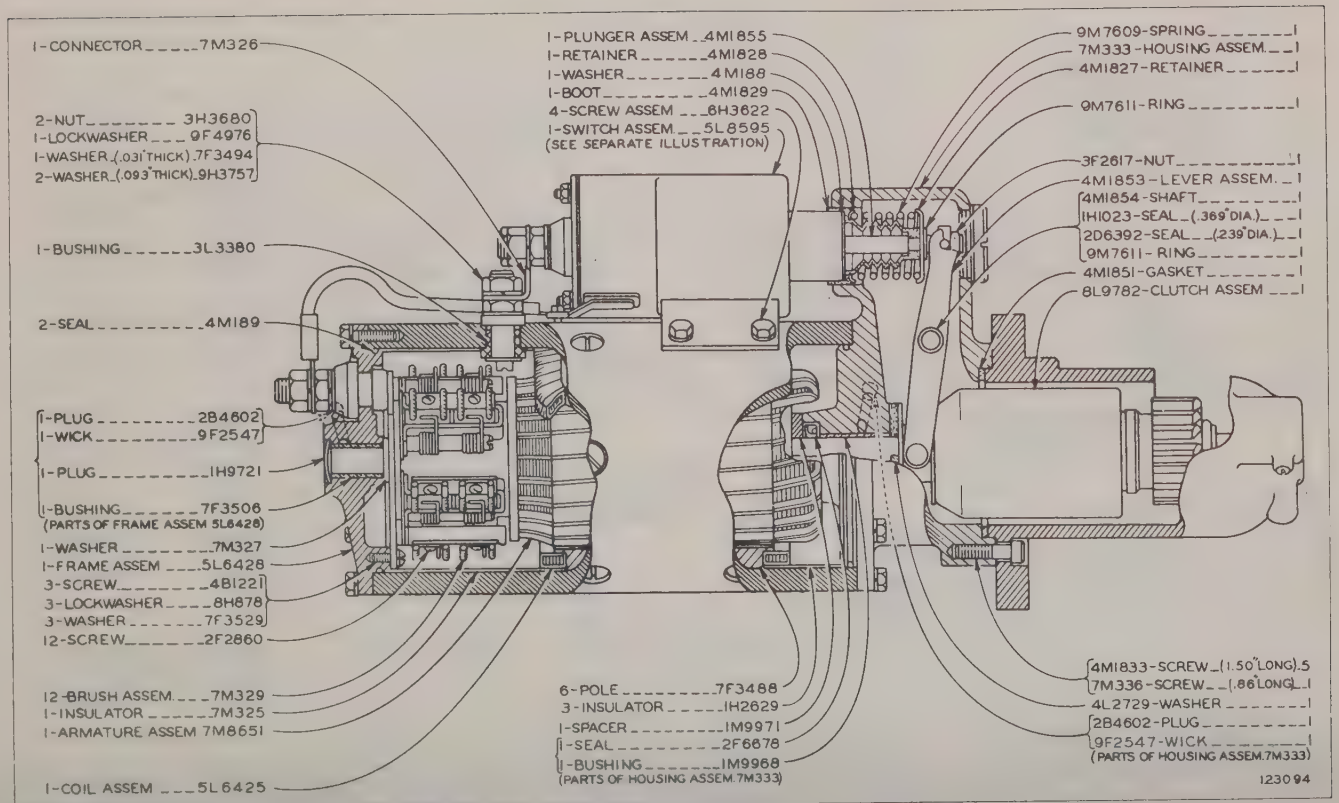





5L7268 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 1—Type 2
5L5382 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 1—Type 2
Part of 6L2748 Electric Starting Group shown on Page 98B
Only separate parts serviced. When complete Assembly is required order 8L6205 shown on Pages 104B and 105

5L7268 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—R.H.—Part 2—Type 2
5L5382 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—L.H.—Part 2—Type 2
Part of 6L2748 Electric Starting Group shown on Page 98B
Only separate parts serviced. When complete Assembly is required order 8L6205 shown on Pages 104B and 105

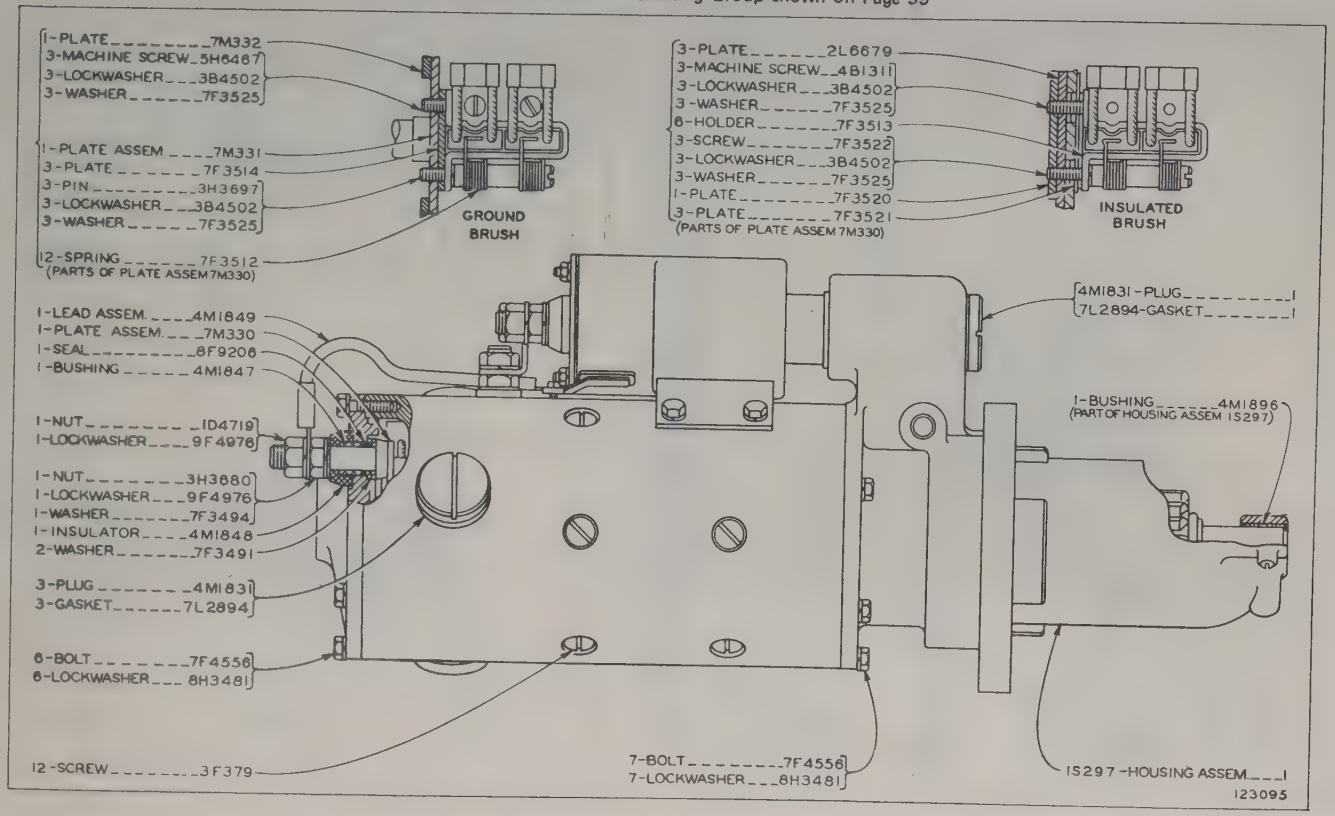


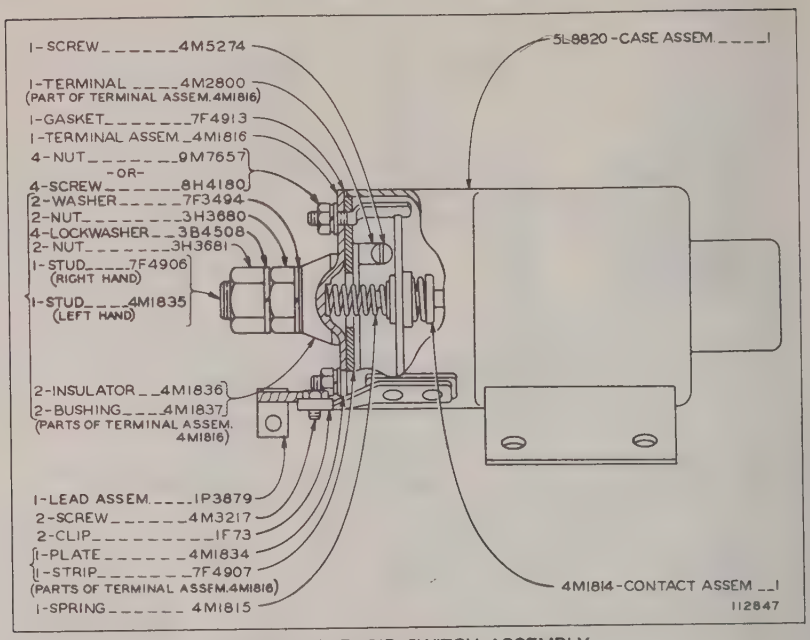



8L6205 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—Part 1
Part of 6L2748 Electric Starting Group shown on Page 99
5L8595 Solenoid Switch Assembly parts are shown on Pages 106 & 106-1

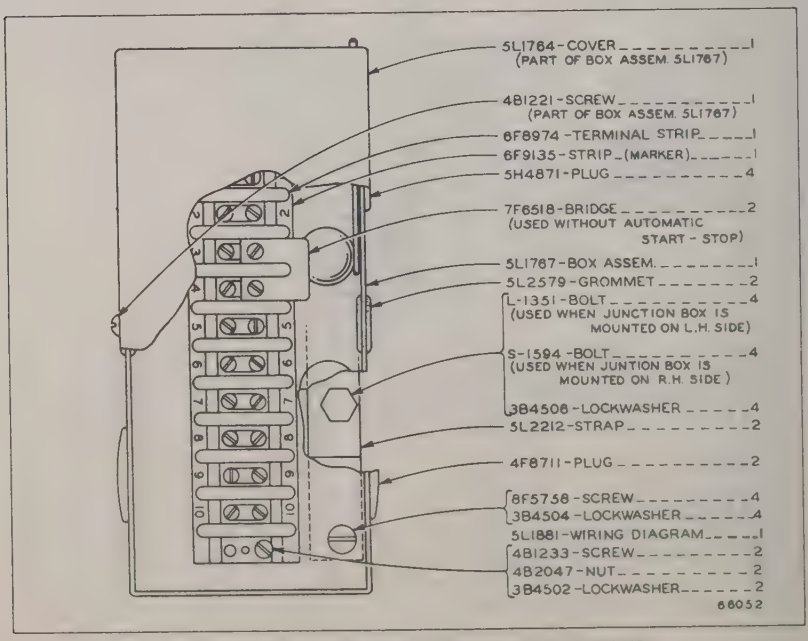
## 8L6205 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt—Part 2

Part of 6L2748 Electric Starting Group shown on Page 99

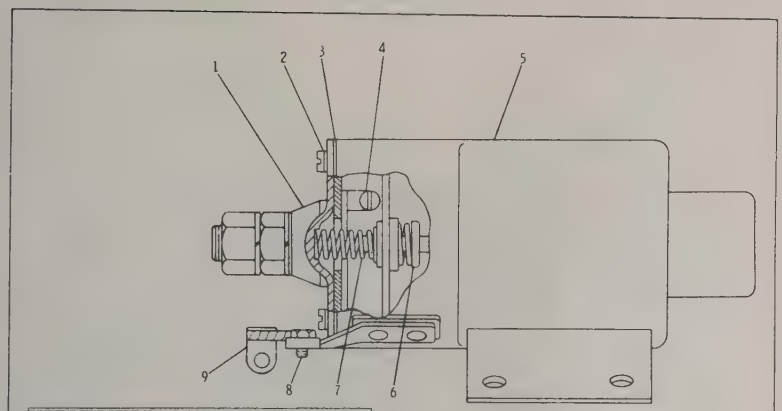





5L8595 SOLENOID SWITCH ASSEMBLY
Part of 5L4405, 8L8204, 8L5939 and 8L6205 Electric Starting Motor Groups
shown on Pages 100, 100B, 100D, 100F, 100K, 100M and 104B



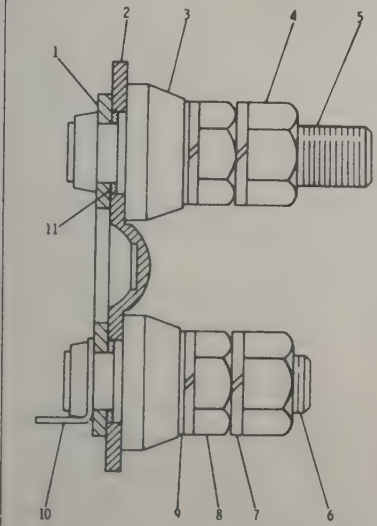

5L2592 STARTING SYSTEM JUNCTION BOX GROUP
Also part fo Automatic Start-Stop Arrangement shown on Page 107




| | REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| C | 1 | 7N1269 | TERMINAL ASSEM. (Separate Illustration) | 1 |
| | 2 | 8H4180 | SCREW | 4 |
| C | 3 | 9S4490 | GASKET | 1 |
| | 4 | 4M5274 | SCREW | 1 |
| | 5 | 5L8820 | CASE ASSEM. | 1 |
| | 6 | 4M1814 | CONTACT ASSEM. | 1 |
| | 7 | 4M1815 | SPRING | 1 |
| | 8 | 4M3217 | SCREW | 2 |
| | 9 | 1P3879 | LEAD ASSEM. | 1 |

C INDICATES CHANGE 163421

**5L8595 SOLENOID SWITCH ASSEMBLY—Type 2**
Part of 5L4405, 8L8204, 8L5939 and 8L6205 Electric Starting Motor Groups shown on Pages 100, 100B, 100D, 100F, 100K, 100M and 104B. 7N1269 Terminal parts are shown on Page 106-1




| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7F4907 | STRIP | 1 |
| 2 | 4M1834 | PLATE | 1 |
| 3 | 4M1836 | INSULATOR | 2 |
| 4 | 3H3681 | NUT | 2 |
| 5 | 7N910 | TERMINAL ASSEM. | 1 |
| 6 | 7N1271 | TERMINAL ASSEM. | 1 |
| 7 | 3B4508 | LOCKWASHER | 4 |
| 8 | 3H3680 | NUT | 2 |
| 9 | 7F3494 | WASHER | 2 |
| 10 | 4M2800 | TERMINAL | 1 |
| 11 | 4M1837 | BUSHING | 2 |

163422

**7N1269 TERMINAL ASSEMBLY**
Part of 5L8595 Solenoid Switch Assembly shown on Page 106-1

CONSISTS OF:

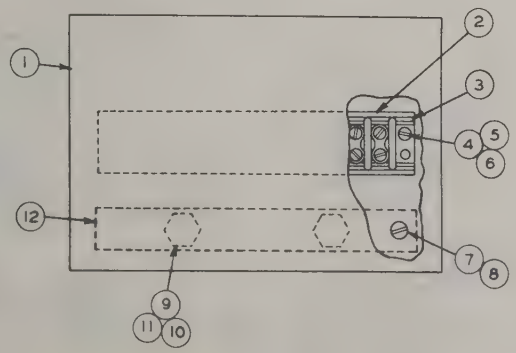
| | | |
|---|---|---|
| | 4S8784 | WIRE (No. 6)--5 FOOT |
| | 4S8785 | WIRE (No. 10)--6 FOOT |
| | 4S8787 | WIRE (No. 14)--35 FOOT |
| 2 | 2L8049 | TERMINAL (No. 10 SCREW) |
| 1 | 2L8052 | TERMINAL (3/8" SCREW) |
| 2 | 2L8054 | TERMINAL (1/2" SCREW) (USED WITH No. 6 WIRE) |
| 2 | 2L8065 | TERMINAL (No. 8 SCREW) |
| 3 | 2L8067 | TERMINAL (1/4" SCREW) |
| 2 | 2L8071 | TERMINAL (1/2" SCREW) (USED WITH No. 10-12 WIRE) |
| 2 | 2L8074 | TERMINAL (No. 6 SCREW) |
| 21 | 2L8076 | TERMINAL (No. 10 SCREW) |
| 2 | 2L8079 | TERMINAL (3/8" SCREW) (USED WITH No. 14 WIRE) |
| 2 | 5P1475 | TERMINAL--SPRING SPADE (14-16 No. 8 SCREW) |
| 2 | 5P1476 | TERMINAL--SPRING SPADE (14-16 No. 10 SCREW) |
| 2 | 5P1477 | TERMINAL--SPRING SPADE (10-12 No. 8 SCREW) |
| 2 | 5P1478 | TERMINAL--SPRING SPADE (10-12 No. 10 SCREW) |
| 1 | 5D5569 | CONNECTOR--SEALING GRIP |
| 10 | 1H5166 | CLIP (3.50" LONG) |
| 1 | 2H2143 | MARKER (WIRE CODE) |
| 2 | 2H2965 | SPLICE--WIRE |
| 2 | 4H8310 | STRAP--CONNECTOR |
| 6 | 2L9724 | CLIP (2.50" LONG) |
| 2 | 5L2579 | GROMMET--JUNCTION BOX |
| 1 | 6L8150 | JUMPER--TERMINAL STRIP |
| 75 | 8L8413 | TIE (5.50" LONG) |
| 1 | 3N5681 | TIE--CABLE |
| 6 | 3S2093 | TIE (7.31" LONG) |
| 3 | 8S4626 | SPLICE--WIRE |

8L4849 WIRING GROUP

Part of 8L4850 Automatic Start-Stop Arrangement listed on Page 106A

| | CONSISTS OF: | | PAGE |
|---|---|---|---|
| 1 | 8L4244 | JUNCTION BOX GROUP | 106A |
| 1 | 8L4245 | STARTING MOTOR GROUP | 106B |
| 1 | 8L4249 | CONTACTOR GROUP | 106G |
| 1 | 8L4285 | SHUT-OFF GROUP | 106F |
| 1 | 8L4849 | WIRING GROUP | 106-2 |
| 1 | ..... | PRINT OF WIRING DIAGRAM | |

8L4850 AUTOMATIC START-STOP ARRANGEMENT—24 Volt

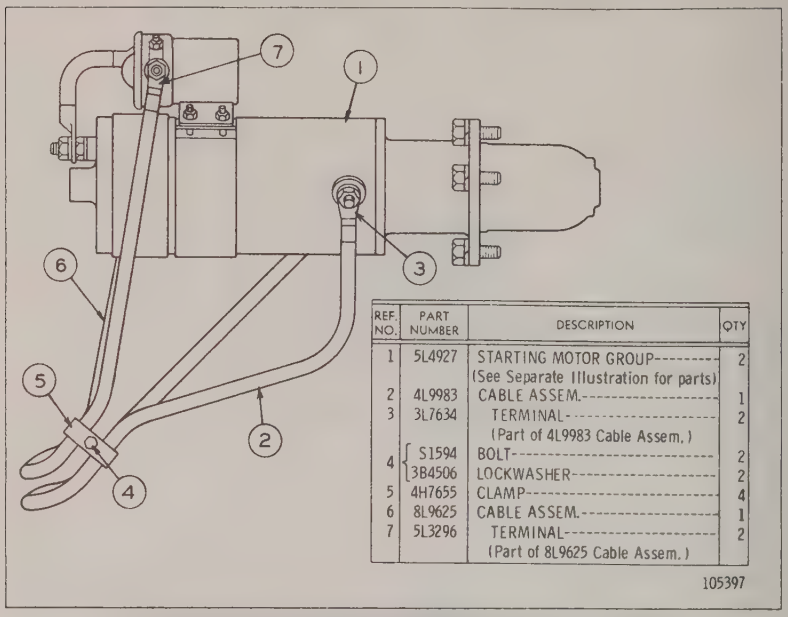



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 8L4236 | BOX | 1 |
| 2 | 4L6471 | STRIP (Marker) | 1 |
| 3 | 4L6470 | STRIP | 1 |
| 4 | 4B1308 | BOLT | 2 |
| 5 | 4B2047 | NUT | 2 |
| 6 | 3B4502 | LOCKWASHER | 2 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 7 | 9B9178 | SCREW | 2 |
| 8 | 3B4504 | LOCKWASHER | 2 |
| 9 | S1588 | BOLT | 2 |
| | 3H2137 | SPACER | 2 |
| 10 | 3B4506 | LOCKWASHER | 2 |
| 11 | 4B5271 | WASHER | 2 |
| 12 | 8L4242 | STRAP | 1 |

105213

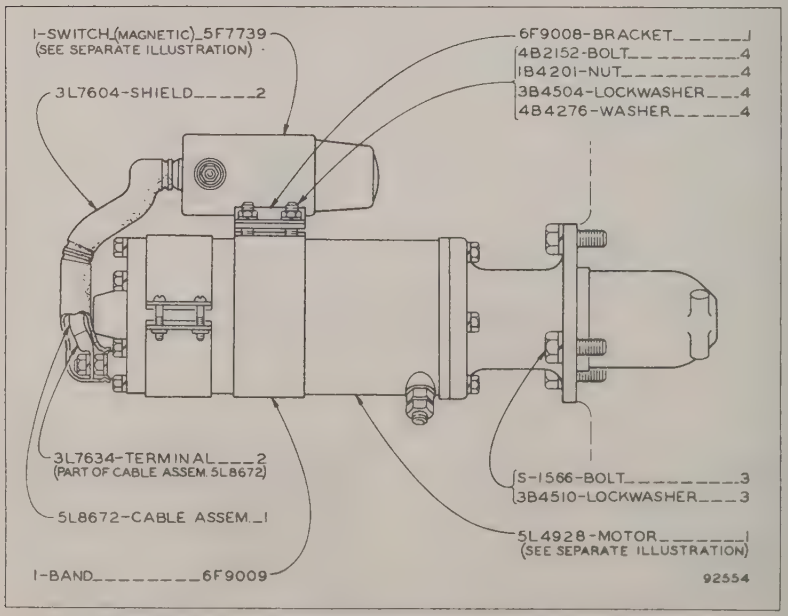
8L4244 JUNCTION BOX GROUP
Part of 8L4850 Automatic Start-Stop Arrangement



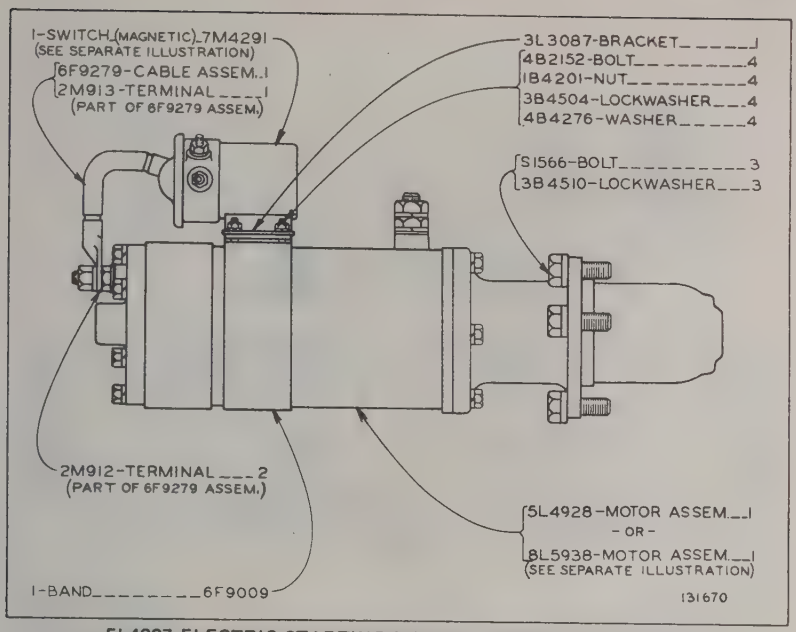

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5L4927 | STARTING MOTOR GROUP---------<br>(See Separate Illustration for parts) | 2 |
| 2 | 4L9983 | CABLE ASSEM.---------- | 1 |
| 3 | 3L7634 | TERMINAL----------<br>(Part of 4L9983 Cable Assem.) | 2 |
| 4 | S1594 | BOLT---------- | 2 |
| | 3B4506 | LOCKWASHER---------- | 2 |
| 5 | 4H7655 | CLAMP---------- | 4 |
| 6 | 8L9625 | CABLE ASSEM.---------- | 1 |
| 7 | 5L3296 | TERMINAL----------<br>(Part of 8L9625 Cable Assem.) | 2 |

105397

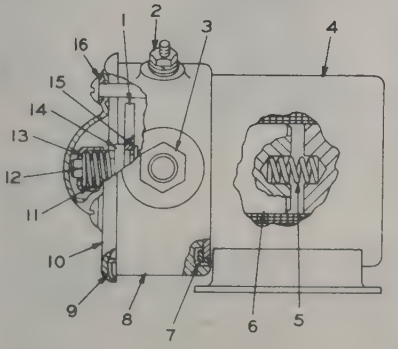
**8L4245 ELECTRIC STARTING MOTOR GROUP—24 Volt**
**Part of 8L4850 Automatic Start–Stop Arrangement**
**listed on Page 106A**




**5L4927 ELECTRIC STARTING MOTOR GROUP—24 Volt—Type 1**
**Part of 8L4245 Electric Starting Motor Group. 5L4928 Motor and 5F7739**
**Switch parts are shown on Pages 106D and 109**



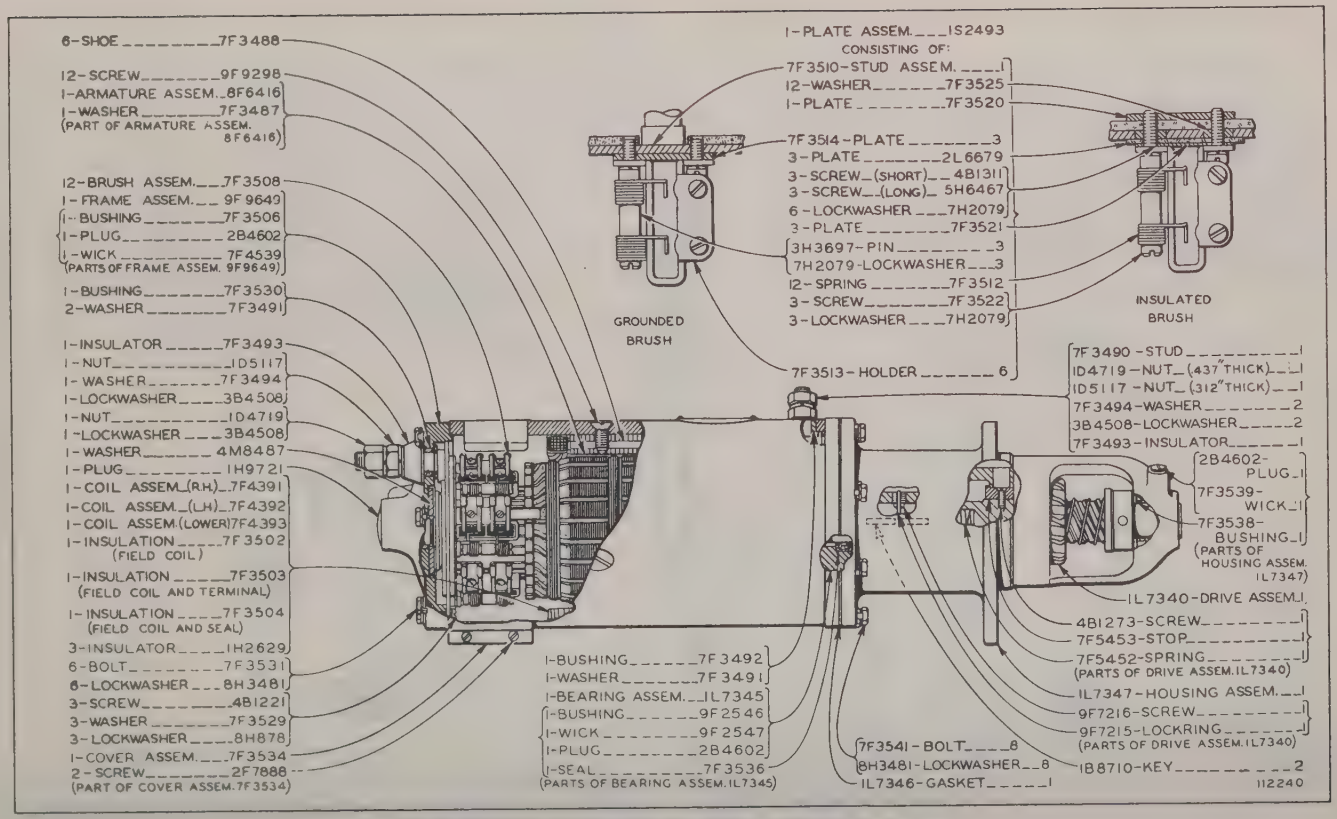

**5L4927 ELECTRIC STARTING MOTOR GROUP—24 Volt—Type 2**
Part of 8L4245 Motor Group. 7M4291 Switch, 5L4928 and 8L5938 Motor parts are shown on Pages 106C, 106D and 106E




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7M7548 | CONTACT | 1 |
| 2 | 7F7622 | NUT | 2 |
| | 7H2079 | LOCKWASHER | 2 |
| | 6H5431 | NUT | 2 |
| 3 | 6H8351 | LOCKWASHER | 2 |
| | 9B9082 | WASHER | 2 |
| 4 | 7M7547 | CASE & COIL ASSEM. | 1 |
| C 5 | 1S9371 | SPRING | 1 |
| 6 | 2S1536 | PLUNGER ASSEM. | 1 |
| 7 | 7F4795 | GASKET | 1 |
| 8 | 7M7552 | CAP ASSEM. | 1 |
| 9 | 7F4797 | GASKET | 1 |
| 10 | 5H7797 | COVER | 1 |
| 11 | 7M7553 | SPRING | 1 |
| 12 | 7M7621 | WASHER | 2 |
| 13 | 1S9372 | WASHER | 1 |
| 14 | 7M7550 | WASHER | 1 |
| 15 | 7M7549 | WASHER | 1 |
| 16 | 3H442 | SEAL | 3 |

C INDICATES CHANGE 203785

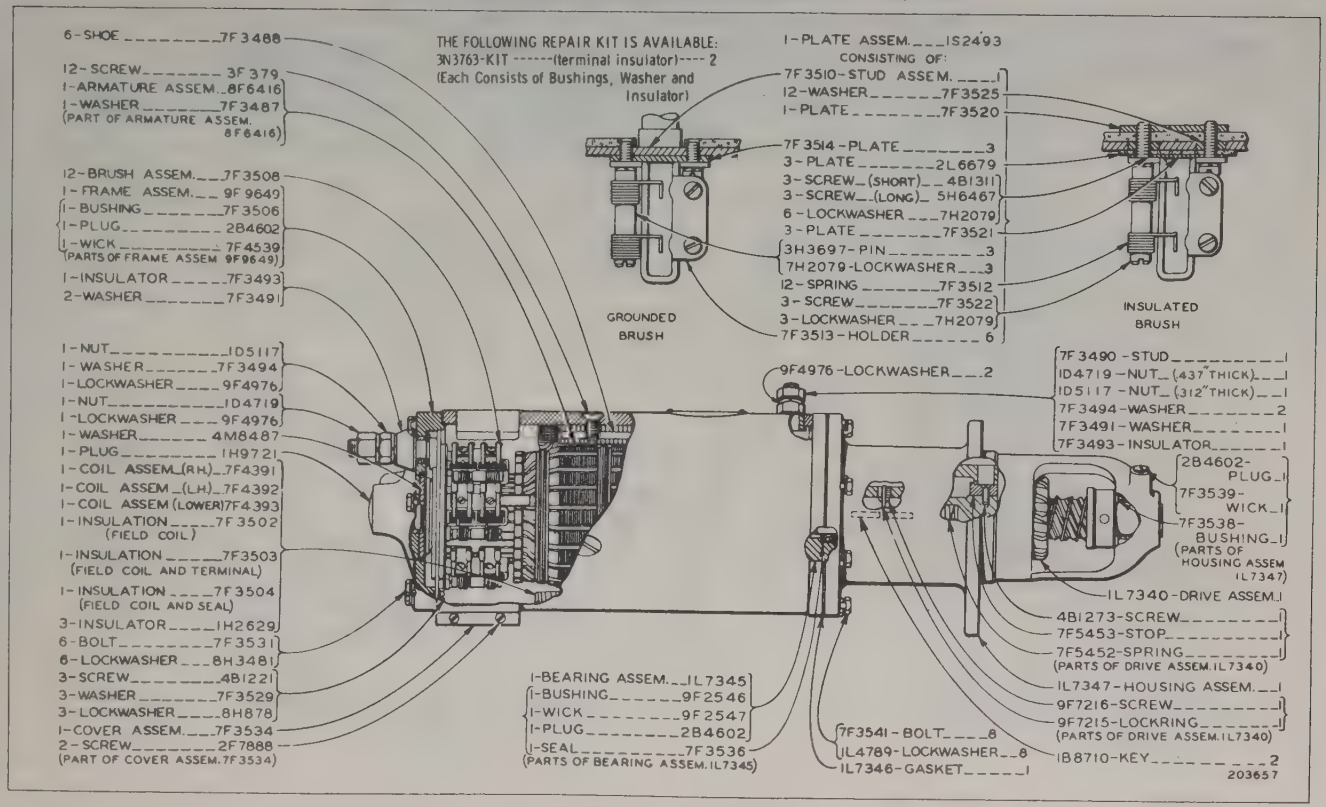
**7M4291 MAGNETIC SWITCH ASSEMBLY—24 Volt**
Part of 5L4927 Electric Starting Motor Group

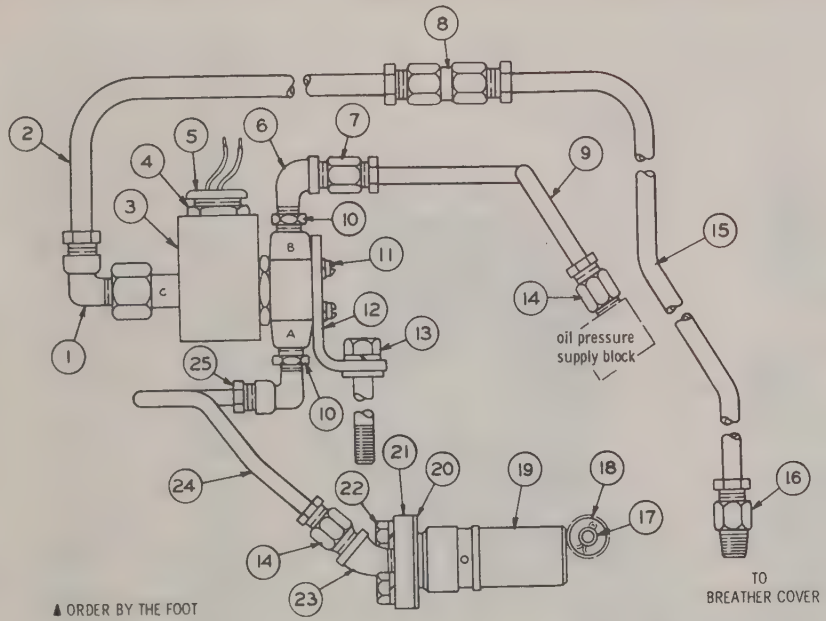



**5L4928 ELECTRIC STARTING MOTOR ASSEMBLY—24 Volt**
Part of 5L4927 Electric Starting Motor Group shown on Pages 106B and 106C

# 8L5938 ELECTRIC STARTING MOTOR ASSEMBLY—24 or 32 Volt

Part of 5L4927 Electric Starting Motor Group shown on Page 106C






| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3B8999 | FITTING | 1 |
| | 8F8997 | NUT | 1 |
| | | (Part of 3B8999 Fitting) | |

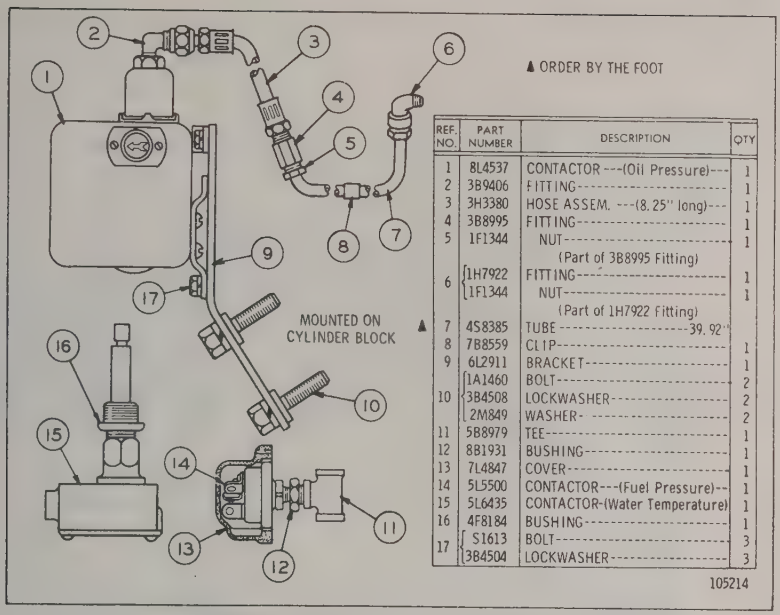
| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| ▲ 2 | 4S8457 | TUBE --------(Drain)-------22.66" | |
| 3 | 6L3040 | SOLENOID VALVE | 1 |
| 4 | 3F2065 | NUT | 2 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 5 | 4F8184 | BUSHING | 1 |
| 6 | 3B6552 | STREET ELL | 1 |
| 7 | 7L5031 | FITTING | 1 |
| | 1F1344 | NUT | 1 |
| | | (Part of 7L5031 Fitting) | |
| 8 | 1F5194 | FITTING | 1 |
| | 8F8997 | NUT | 2 |
| | | (Part of 1F5194 Fitting) | |
| 9 | 7L2134 | TUBE----------(Supply)---------- | 1 |
| 10 | 3B6768 | BUSHING | 2 |
| 11 | 4B1297 | SCREW | 2 |
| | 3B4501 | LOCKWASHER | 2 |
| 12 | 5L9194 | BRACKET | 1 |
| 13 | 1A5964 | BOLT | 2 |
| | 3B4506 | LOCKWASHER | 2 |
| | T431 | WASHER | 2 |
| 14 | 1F7552 | FITTING | 2 |
| | 1F1344 | NUT | 2 |
| | | (1 in each 1F7552 Fitting) | |
| ▲ 15 | 4S8457 | TUBE--------(Drain)-------43.84" | |
| 16 | 3B8996 | FITTING | 1 |
| | 8F8997 | NUT | 1 |
| | | (Part of 3B8996 Fitting) | |
| 17 | 6B8193 | PIN | 1 |
| 18 | 5F547 | WASHER | 1 |
| 19 | 5L8951 | PISTON | 1 |
| 20 | 6L3398 | GASKET | 1 |
| 21 | 5L8952 | COVER | 1 |
| 22 | 4B3388 | BOLT | 2 |
| | 3B4505 | LOCKWASHER | 2 |
| 23 | 3B7730 | ELBOW | 1 |
| 24 | 7L2131 | TUBE | 1 |
| 25 | 3B8998 | FITTING | 1 |
| | 1F1344 | NUT | 1 |
| | | (Part of 3B8998 Fitting) | |

105398

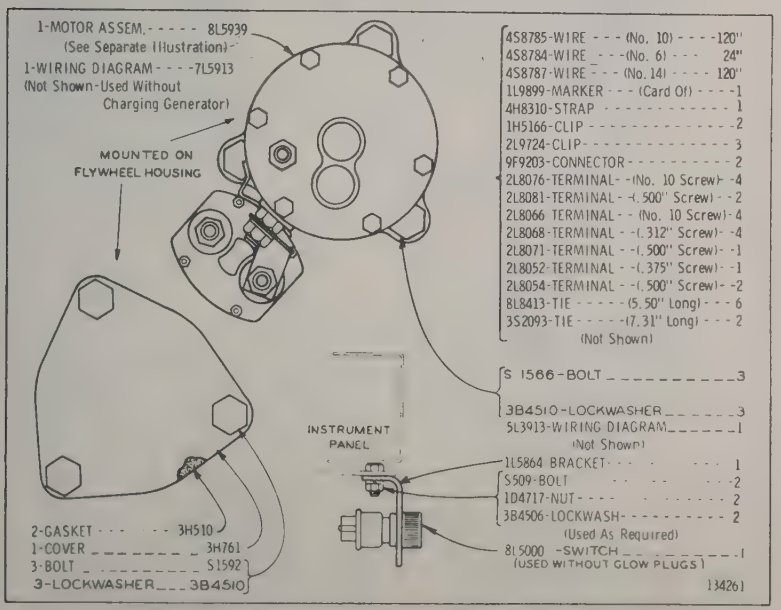
**8L4285 SHUT-OFF GROUP—24 Volt**

Part of 8L4850 Automatic Start—Stop Arrangement listed on Page 106A

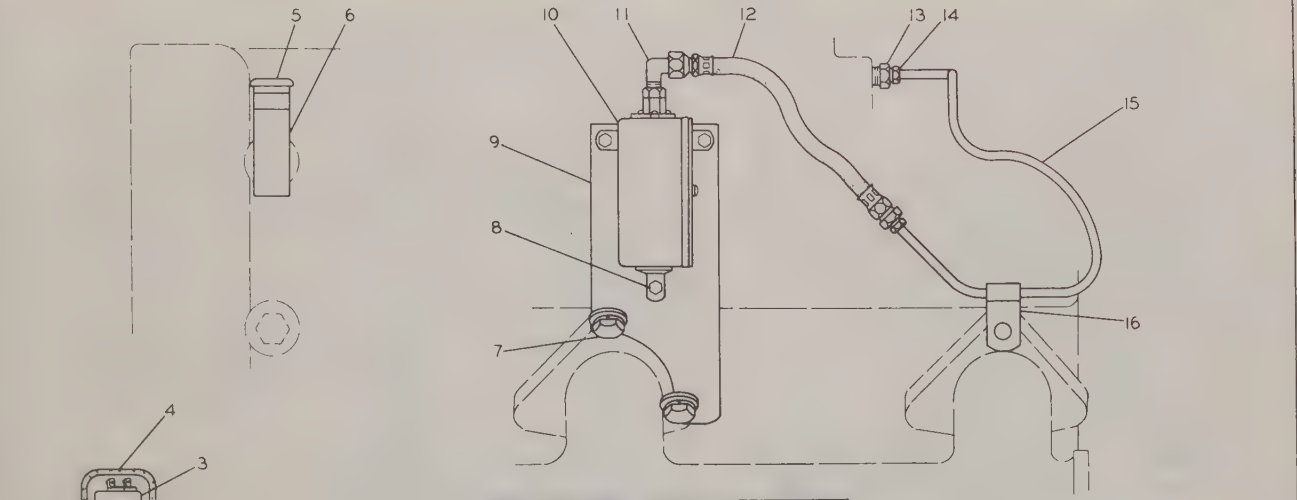



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 8L4537 | CONTACTOR---(Oil Pressure)--- | 1 |
| 2 | 3B9406 | FITTING | 1 |
| 3 | 3H3380 | HOSE ASSEM. ---(8.25" long)--- | 1 |
| 4 | 3B8995 | FITTING | 1 |
| 5 | 1F1344 | NUT (Part of 3B8995 Fitting) | 1 |
| 6 | 1H7922 | FITTING | 1 |
| | 1F1344 | NUT (Part of 1H7922 Fitting) | 1 |
| 7 | 4S8385 | TUBE---39.92" | |
| 8 | 7B8559 | CLIP | 1 |
| 9 | 6L2911 | BRACKET | 1 |
| 10 | 1A1460 | BOLT | 2 |
| | 3B4508 | LOCKWASHER | 2 |
| | 2M849 | WASHER | 2 |
| 11 | 5B8979 | TEE | 1 |
| 12 | 8B1931 | BUSHING | 1 |
| 13 | 7L4847 | COVER | 1 |
| 14 | 5L5500 | CONTACTOR---(Fuel Pressure)-- | 1 |
| 15 | 5L6435 | CONTACTOR-(Water Temperature) | 1 |
| 16 | 4F8184 | BUSHING | 1 |
| 17 | S1613 | BOLT | 3 |
| | 3B4504 | LOCKWASHER | 3 |

**8L4249 CONTACTOR GROUP—Type 1**
**Part of 8L4850 Automatic Start—Stop Arrangement listed on Page 106A**




**6L1550 SINGLE STARTING MOTOR GROUP—32 Volt**
**FOR USE WITH NORMAL LOAD AND AMBIENT TEMPERATURE RANGING 60° F. AND ABOVE. 8L5939 Motor parts are shown on Pages 100K through 102A**




| REF. NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5B8978 | TEE | 1 |
| 2 | 6B5072 | BUSHING | 1 |
| 3 | 2L3402 | SWITCH | 1 |
| 4 | 7L4847 | COVER | 1 |
| 5 | 4F8184 | BUSHING | 1 |
| 6 | 5L6435 | CONTACTOR-----(Water Temp )-- | 1 |
| 7 | 1A1460 | BOLT | 2 |
| | 3B4508 | LOCKWASHER | 2 |
| | 2M849 | WASHER | 2 |
| 8 | S1613 | BOLT | 3 |
| | 3B4504 | LOCKWASHER | 3 |
| 9 | 6L2911 | BRACKET | 1 |
| 10 | 2N7124 | SWITCH-------(Pressure)------- | 1 |
| 11 | 3B9406 | FITTING | 1 |
| 12 | 3H3380 | HOSE ASSEM. -----(8.25" Long)--- | 1 |
| 13 | 3B8995 | FITTING | 2 |
| 14 | 1F1344 | NUT | 1 |
| ▲ 15 | 4S8385 | TUBE-----35.97" | |
| 16 | 7B8559 | CLIP | 1 |

▲ ORDER BY THE FOOT

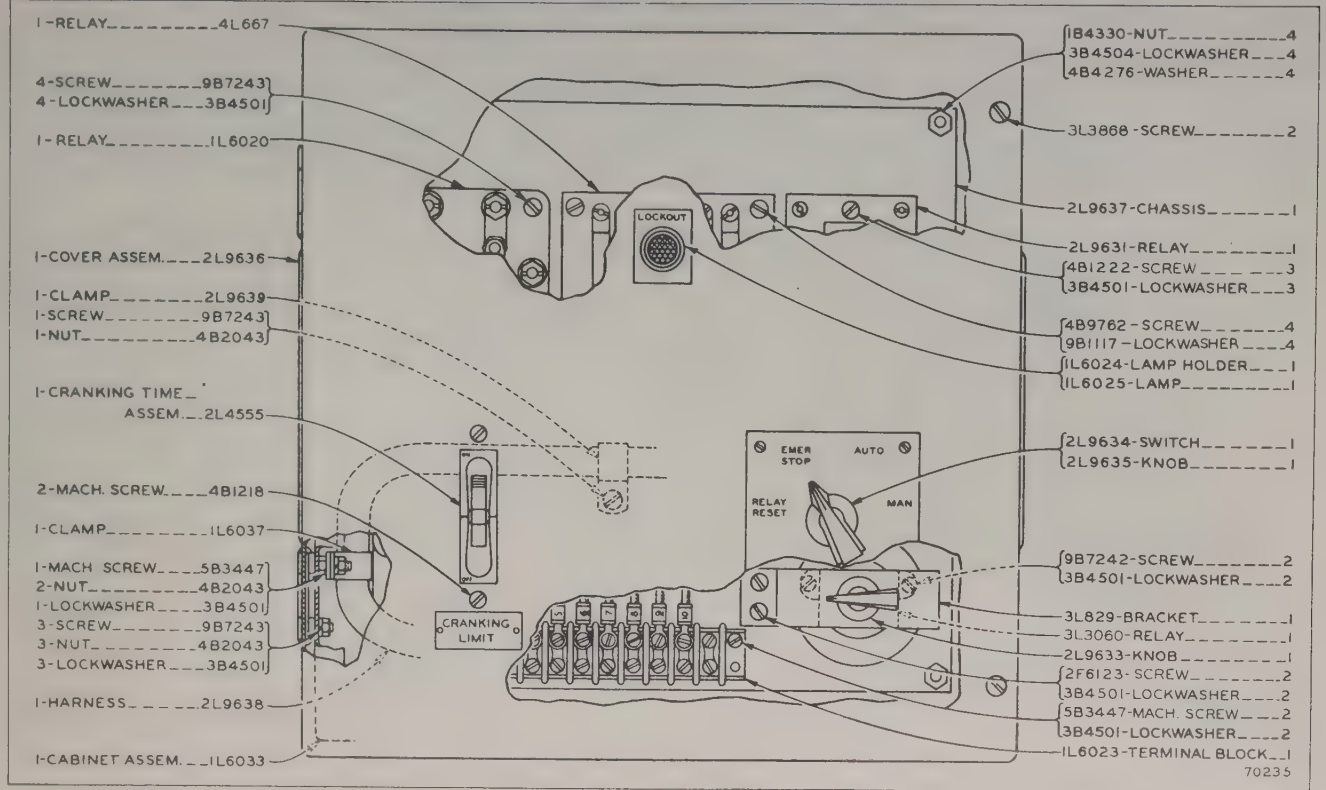
114778

**8L4249 CONTACTOR GROUP—Type 2**

Part of 8L4850 Automatic Start—Stop Arrangement listed on Page 106A

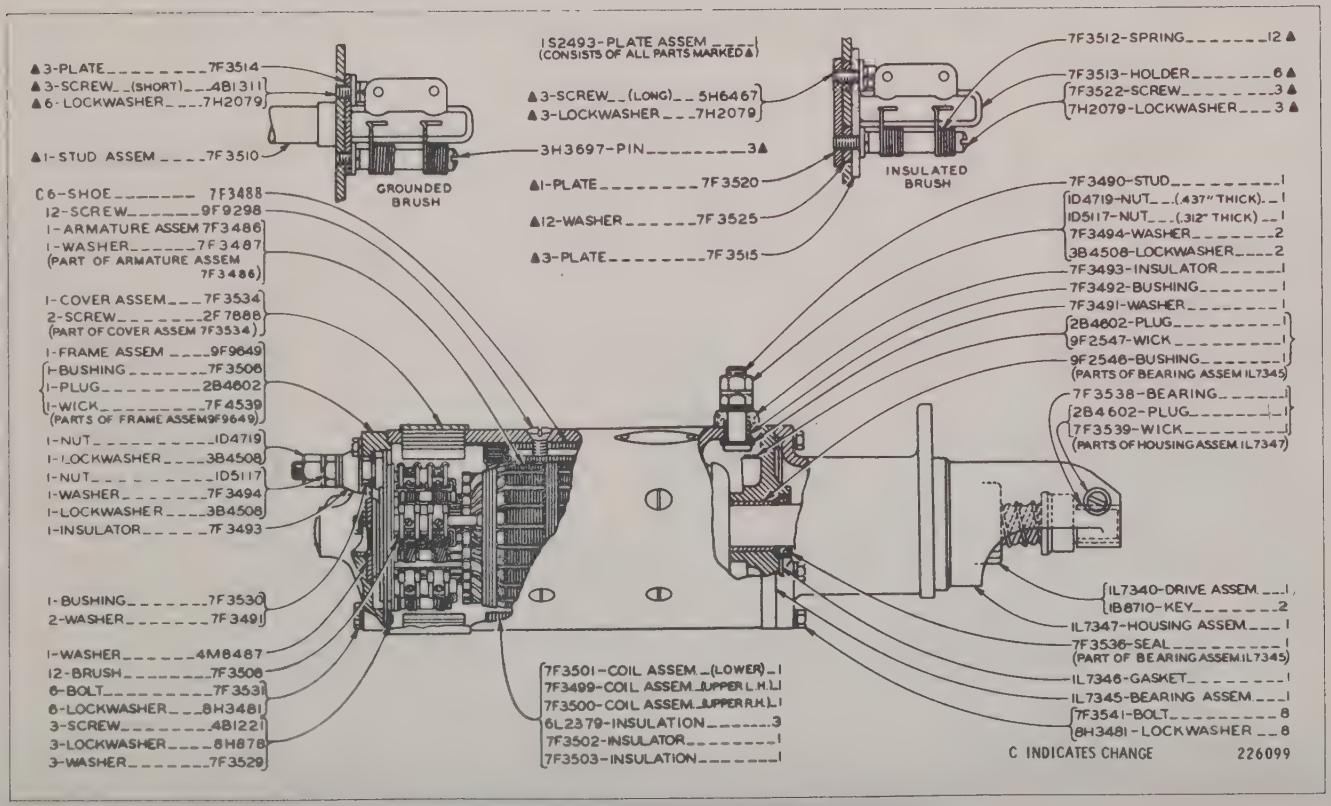
## 2L276 PANEL ASSEMBLY—32 Volt

Part of Automatic Start—Stop Arrangement listed on Page 107



| | CONSISTS OF: | | PAGE |
|---|---|---|---|
| 2 | 5F7739 | MAGNETIC SWITCH | 109 |
| 1 | 2L276 | PANEL ASSEMBLY | 106J |
| 1 | 5L2592 | STARTING SYSTEM JUNCTION BOX GROUP | 106 |
| 1 | 5L2592 | Starting System Junction Box Group | 106 |
| 2 | 5L5355 | Electric Starting Motor Assembly | 108 |
| 1 | 5L8956 | Rack Solenoid Shut-Off Group | 140 |
| 2 | 1A1460 | Bolt | |
| 8 | 1B4201 | Nut—Bracket to Switch | |
| 2 | 3B4502 | Lockwasher | |
| 8 | 3B4504 | Lockwasher—1/4" | |
| 2 | 3B4506 | Lockwasher—3/8" | |
| 2 | 3B4508 | Lockwasher—1/2" | |
| 6 | 3B4510 | Lockwasher—5/8" | |
| 1 | 3B6552 | Street Ell—Nipple to Contactor | |
| 1 | 3B7264 | Nipple | |
| 1 | 4B418 | Clip—Hose Assembly | |
| 2 | 4B1237 | Screw | |
| 8 | 4B2152 | Bolt—Bracket to Switch | |
| 8 | 4B4276 | Washer—Bracket to Switch | |
| 80 Ft. | 4B9388 | Wire | |
| 2 | 9B1006 | Washer | |
| 1 | 2D8564 | Hose Assembly | |
| 1 | 3F1240 | Grommet—Oil Pressure Contactor | |
| 1 | 3F9501 | Marker—Terminal B− | |
| 1 | 3F9509 | Marker—Terminal B+ | |
| 1 | 4F8184 | Bushing | |
| 4 | 6F8907 | Clip | |
| 2 | 6F9008 | Bracket—Switch | |
| 2 | 6F9009 | Band—Switch | |
| 2 | 8F2396 | Grommet—Hose Assembly | |
| 1 | 2H2143 | Marker—Wire Code | |
| 4 | 4H7655 | Clamp—Cable | |
| 1 | 3K3415 | Fitting | |
| 20 | 2L8076 | Terminal | |
| 2 | 3L1519 | Cable Assembly—Switch to Motor | |
| 2 | 3L7604 | Shield | |
| 1 | 4L2842 | Tag | |
| 1 | 4L2843 | Tag | |
| 2 | 4L9983 | Cable Assembly | |
| 1 | 5L6435 | Contactor | |
| 1 | 6L2134 | Contactor | |
| 1 | 6L2911 | Plate—Contactor Mounting | |
| 1 | 9M7173 | Clip—Hose Assembly | |
| 6 | S-1566 | Bolt—Motor to Housing | |
| 2 | S-1594 | Bolt—Cable Clamp | |
| 1 | ..... | Print of Wiring Diagram 5L6822 | |

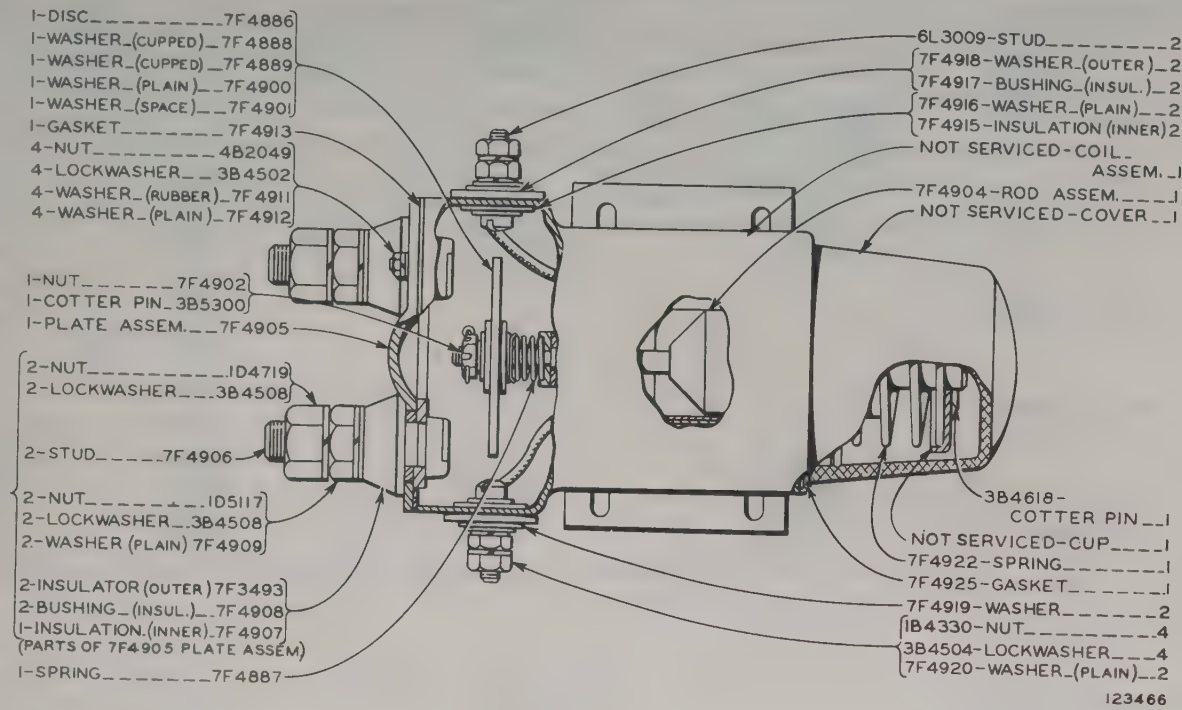
AUTOMATIC START-STOP ARRANGEMENT—32 Volt

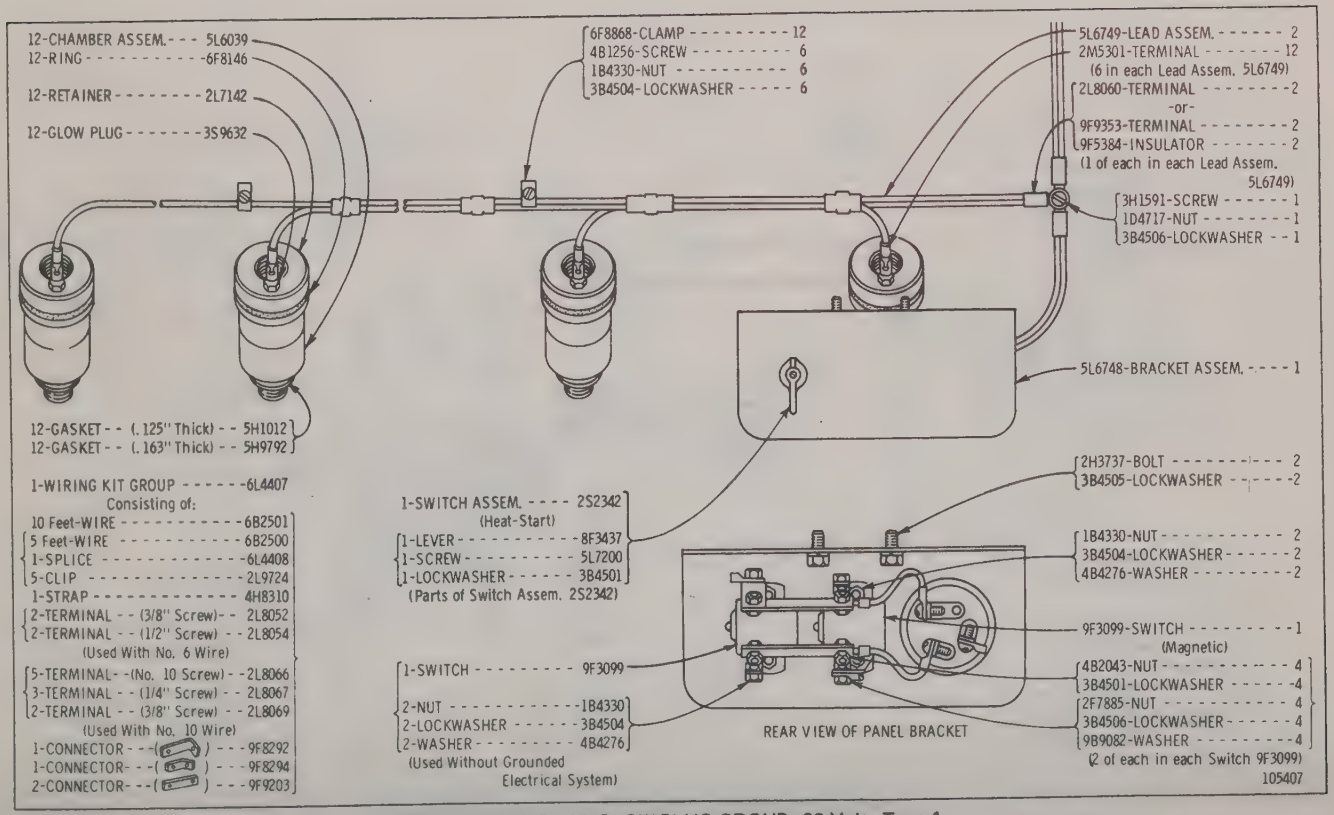



5L5355 ELECTRIC STARTING MOTOR ASSEMBLY—32 Volt
Part of Automatic Start-Stop Arrangement listed on Page 107

## 5F7739 MAGNETIC SWITCH

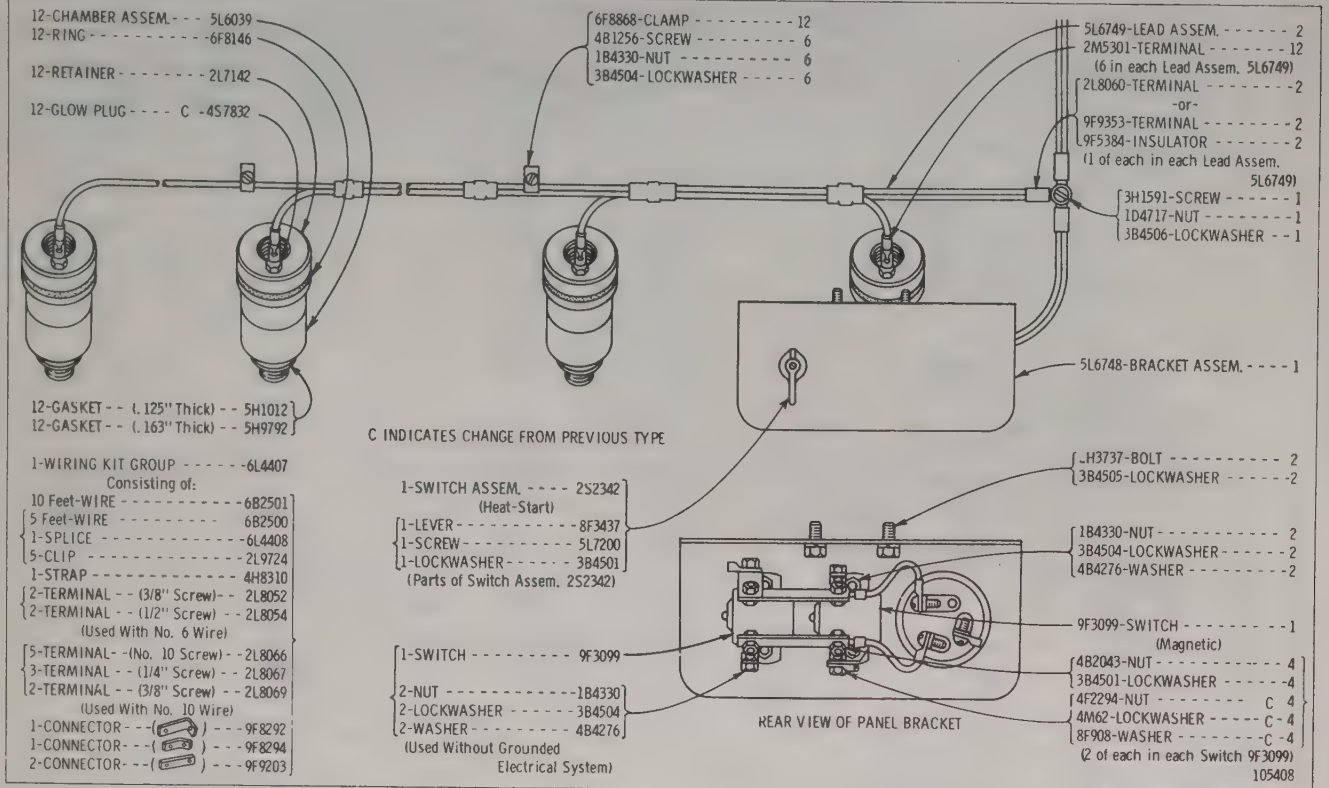
Part of 5L4927 Motor shown on Page 106B and Automatic Start—Stop Arrangement listed on Page 107



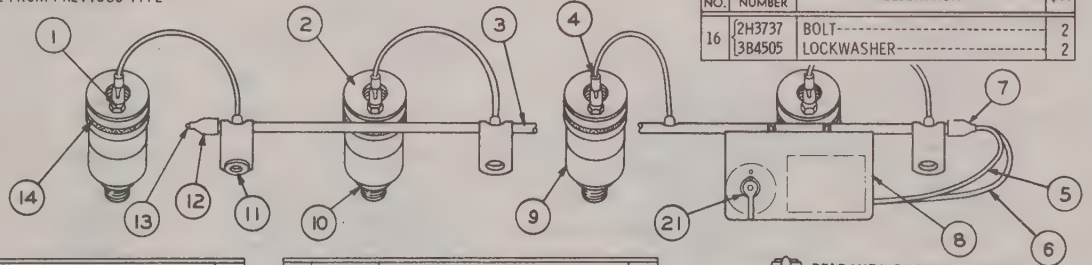



5L7303 STARTING AID GLOW PLUG GROUP—32 Volt—Type 1

## 5L7303 STARTING AID GLOW PLUG GROUP—32 Volt—Type 2



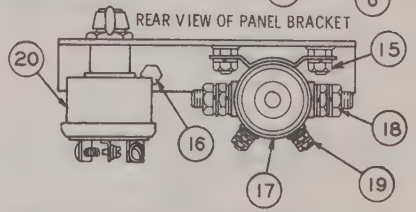
▲ USE WITH INSULATED ELECTRICAL SYSTEM
C INDICATES CHANGE FROM PREVIOUS TYPE




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 16 | 2H3737 | BOLT | 2 |
| | 3B4505 | LOCKWASHER | 2 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| | 6L4407 | WIRING KIT GROUP | 1 |
| | | Consisting of: | |
| | 6B2501 | WIRE------(6 Gauge)-----10 feet | 1 |
| | 6B2500 | WIRE-----(10 Gauge)------5 feet | 1 |
| | 4S8787 | WIRE-----(14 Gauge)------2 feet | 1 |
| | 6L4408 | SPLICE | 1 |
| | 2L9724 | CLIP | 5 |
| | 2L8049 | TERMINAL----(No. 10 Screw) | 1 |
| | 2L8051 | TERMINAL-----(5/16" Screw) | 1 |
| | 2L8052 | TERMINAL-----(3/8" Screw) | 2 |
| | 2L8054 | TERMINAL-----(1/2" Screw) | 3 |
| | | (Used with No. 6 Wire) | |
| | 2L8066 | TERMINAL----(No. 10 Screw)---- | 4 |
| | | (Used with No. 10 Wire) | |
| | 2L8076 | TERMINAL----(No. 10 Screw)---- | 2 |
| | | (Used with No. 14 Wire) | |
| | 8L8413 | TIE-------- (5.5" long) -------- | 4 |
| | 3S2093 | TIE | 1 |
| | 9F8292 | CONNECTOR------( ) | 1 |
| | 9F8294 | CONNECTOR------( ) | 1 |
| 1 | 4S7832 | GLOW PLUG | 12 |

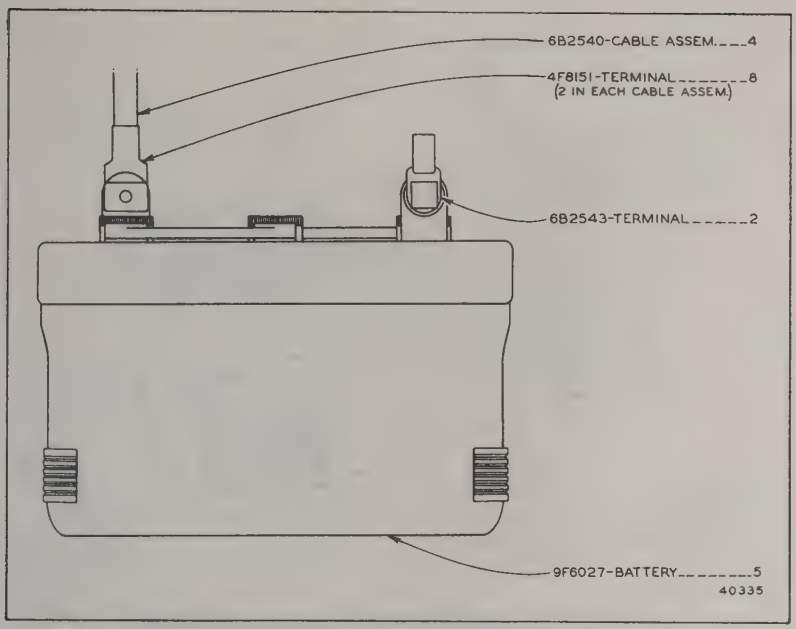
| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 2 | 2L7142 | RETAINER | 12 |
| C 3 | 7L4719 | LEAD ASSEM. | 2 |
| 4 | 2M5301 | TERMINAL | 12 |
| | | (6 in each 7L4719 Lead Assem.) | |
| C 5 | 7L6612 | WIRE ASSEM. | 1 |
| C 6 | 7L6613 | WIRE ASSEM. | 1 |
| | 7L6614 | SHELL | 2 |
| 7 | 3M6018 | TERMINAL | 2 |
| | 2R1033 | WASHER | 2 |
| | | (1 each in 7L6612 & 7L6613 Wire Assem.) | |
| C 8 | 7L6462 | BRACKET ASSEM. | 1 |
| 9 | 5L6039 | CHAMBER ASSEM. | 12 |
| 10 | 5H1012 | GASKET-------(.125" Thick)------ | 12 |
| | 5H9792 | GASKET-------(.163" Thick)------ | 12 |
| C 11 | 4B4280 | WASHER | 8 |
| C 12 | 7L6614 | SHELL | 2 |
| C 13 | 7L8212 | PLUG | 2 |
| 14 | 6F8146 | RING | 12 |
| | 1B4330 | NUT | 2 |
| AC 15 | 3B4504 | LOCKWASHER | 2 |
| | 4B4276 | WASHER | 2 |



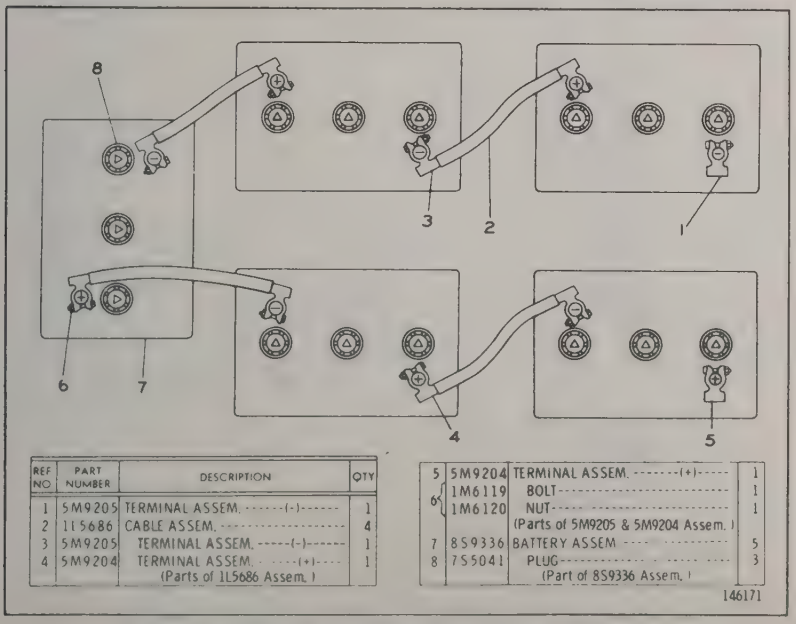

| | REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| AC | 17 | 9F3099 | SWITCH--------(Magnetic)-------- | 1 |
| | 18 | 4F2294 | NUT | 2 |
| | | 8F908 | WASHER | 2 |
| | | 4M62 | LOCKWASHER | 2 |
| | 19 | 4B2043 | NUT | 2 |
| | | 3B4501 | LOCKWASHER | 2 |
| | | | (Parts of 9F3099 Switch) | |
| | 20 | 8S7713 | SWITCH ASSEM. | 1 |
| | 21 | 8F3437 | LEVER | 1 |
| | | 5L7200 | SCREW | 1 |
| | | 3B4501 | LOCKWASHER | 1 |
| | | | (Parts of 8S7713 Switch Assem.) | |

105409

5L7303 STARTING AID GLOW PLUG GROUP—32 Volt—Type 3




**1L5663 BATTERY GROUP–30 Volt, 170 Ampere Hours**
**FOR USE BETWEEN 10° AND 30° FAHRENHEIT TEMPERATURES**
**Only separate parts serviced. When complete Group is required order 2N1943**

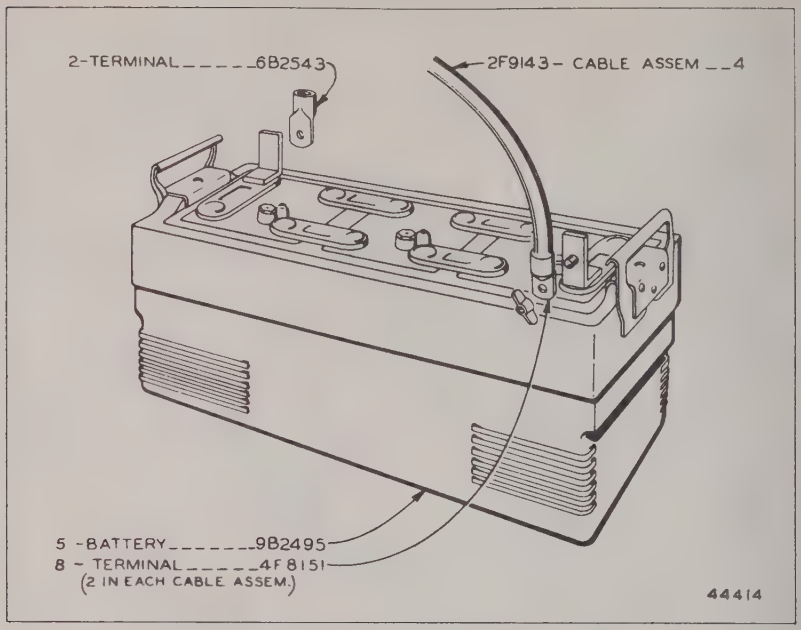



| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5M9205 | TERMINAL ASSEM. -------(-)------ | 1 |
| 2 | 1L5686 | CABLE ASSEM. ---------- | 4 |
| 3 | 5M9205 | TERMINAL ASSEM. -----(-)------ | 1 |
| 4 | 5M9204 | TERMINAL ASSEM. -----(+)---- | 1 |
| | | (Parts of 1L5686 Assem.) | |

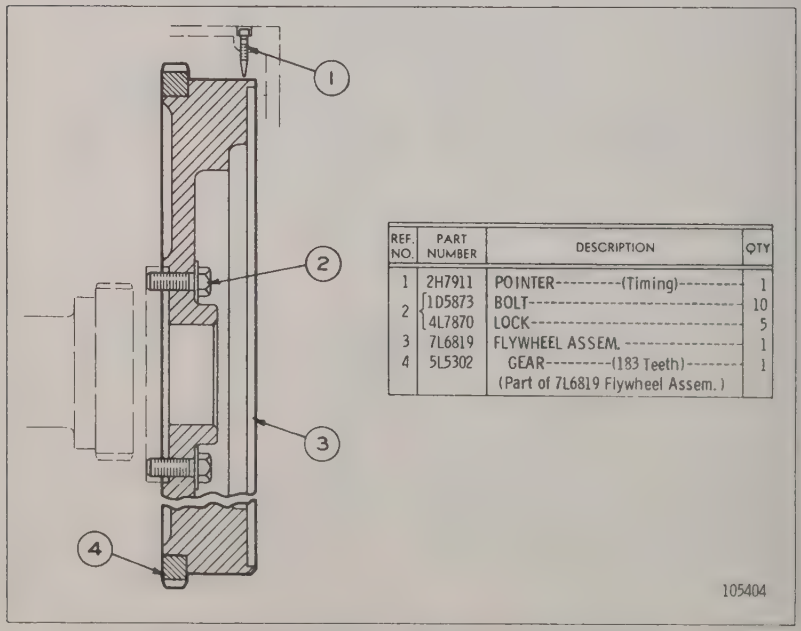
| | | | |
|---|---|---|---|
| 5 | 5M9204 | TERMINAL ASSEM. -------(+)----- | 1 |
| 6 | 1M6119 | BOLT---------- | 1 |
| | 1M6120 | NUT---------- | 1 |
| | | (Parts of 5M9205 & 5M9204 Assem.) | |
| 7 | 8S9336 | BATTERY ASSEM ---------- | 5 |
| 8 | 7S5041 | PLUG---------- | 3 |
| | | (Part of 8S9336 Assem.) | |

146171

**2N1943 BATTERY GROUP–30 Volt, 172 Ampere Hours**
**FOR USE BETWEEN 10° AND 30° FAHRENHEIT TEMPERATURES**

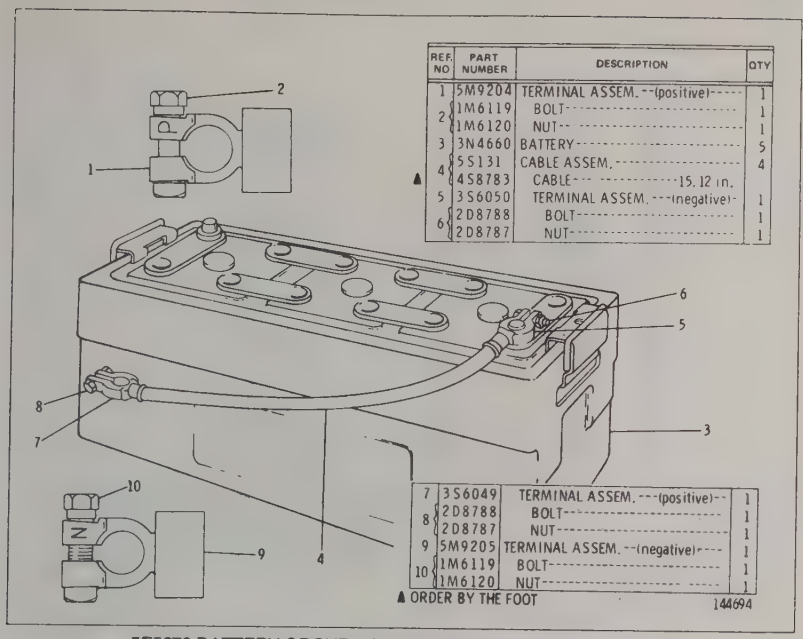



5F5276 BATTERY GROUP—30 Volt, 315 Ampere Hours—Type 1
Only separate parts serviced




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2H7911 | POINTER---------(Timing)--------- | 1 |
| 2 | 1D5873 | BOLT---------- | 10 |
| | 4L7870 | LOCK---------- | 5 |
| 3 | 7L6819 | FLYWHEEL ASSEM. ---------- | 1 |
| 4 | 5L5302 | GEAR---------(183 Teeth)-------- | 1 |
| | | (Part of 7L6819 Flywheel Assem.) | |

7L8683 FLYWHEEL GROUP—S.A.E. Standard Engine Rotation
Serial No. 75B1—Up
Only separate parts serviced

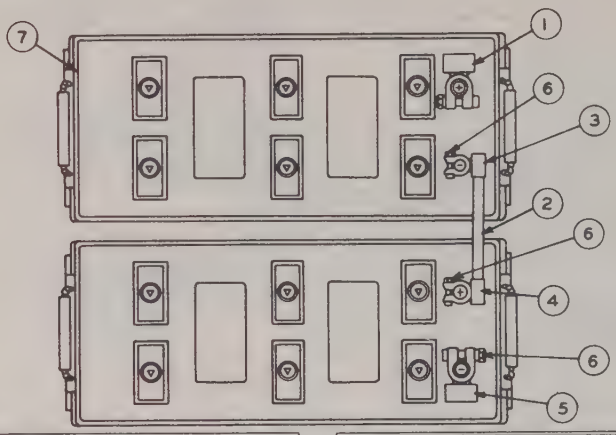



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5M9204 | TERMINAL ASSEM.--(positive)---- | 1 |
| 2 | 1M6119 | BOLT---------- | 1 |
| | 1M6120 | NUT---------- | 1 |
| 3 | 3N4660 | BATTERY---------- | 5 |
| 4 | 5S131 | CABLE ASSEM.---------- | 4 |
| ▲ | 4S8783 | CABLE---------15.12 in. | |
| 5 | 3S6050 | TERMINAL ASSEM.---(negative)- | 1 |
| 6 | 2D8788 | BOLT---------- | 1 |
| | 2D8787 | NUT---------- | 1 |
| 7 | 3S6049 | TERMINAL ASSEM.---(positive)-- | 1 |
| 8 | 2D8788 | BOLT---------- | 1 |
| | 2D8787 | NUT---------- | 1 |
| 9 | 5M9205 | TERMINAL ASSEM.--(negative)---- | 1 |
| 10 | 1M6119 | BOLT---------- | 1 |
| | 1M6120 | NUT---------- | 1 |

▲ ORDER BY THE FOOT

144694

5F5276 BATTERY GROUP—30 Volt, 315 Ampere Hours—Type 2
Only separate parts serviced

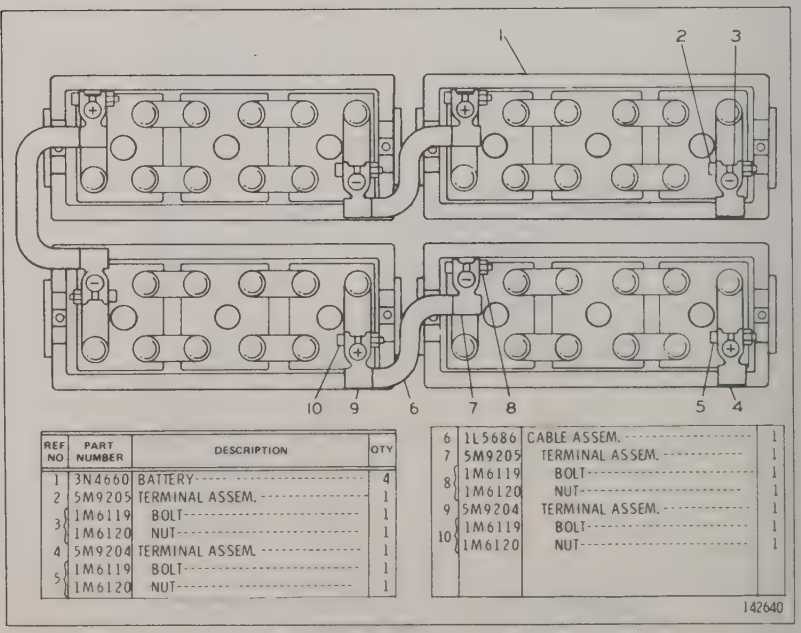



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5M9204 | TERMINAL ASSEM. ------(+)------ | 1 |
| 2 | 1L5686 | CABLE ASSEM. ---------- | 1 |
| 3 | 5M9205 | TERMINAL ASSEM. -----(-)----- | 1 |
| 4 | 5M9204 | TERMINAL ASSEM. -----(+)----- | 1 |
| | | (Parts of 1L5686 Cable Assem.) | |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 5 | 5M9205 | TERMINAL ASSEM. ------(-)------ | 1 |
| 6 | 1M6119 | BOLT---------- | 4 |
| | 1M6120 | NUT---------- | 4 |
| | | (1 each in 5M9204 & 5M9205 Terminal Assem.) | |
| 7 | 4S9261 | BATTERY---------- | 2 |

146165

7L7871 BATTERY GROUP—24 Volt, 172 Ampere Hours




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3N4660 | BATTERY---------- | 4 |
| 2 | 5M9205 | TERMINAL ASSEM. ---------- | 1 |
| 3 | 1M6119 | BOLT---------- | 1 |
| | 1M6120 | NUT---------- | 1 |
| 4 | 5M9204 | TERMINAL ASSEM. ---------- | 1 |
| 5 | 1M6119 | BOLT---------- | 1 |
| | 1M6120 | NUT---------- | 1 |

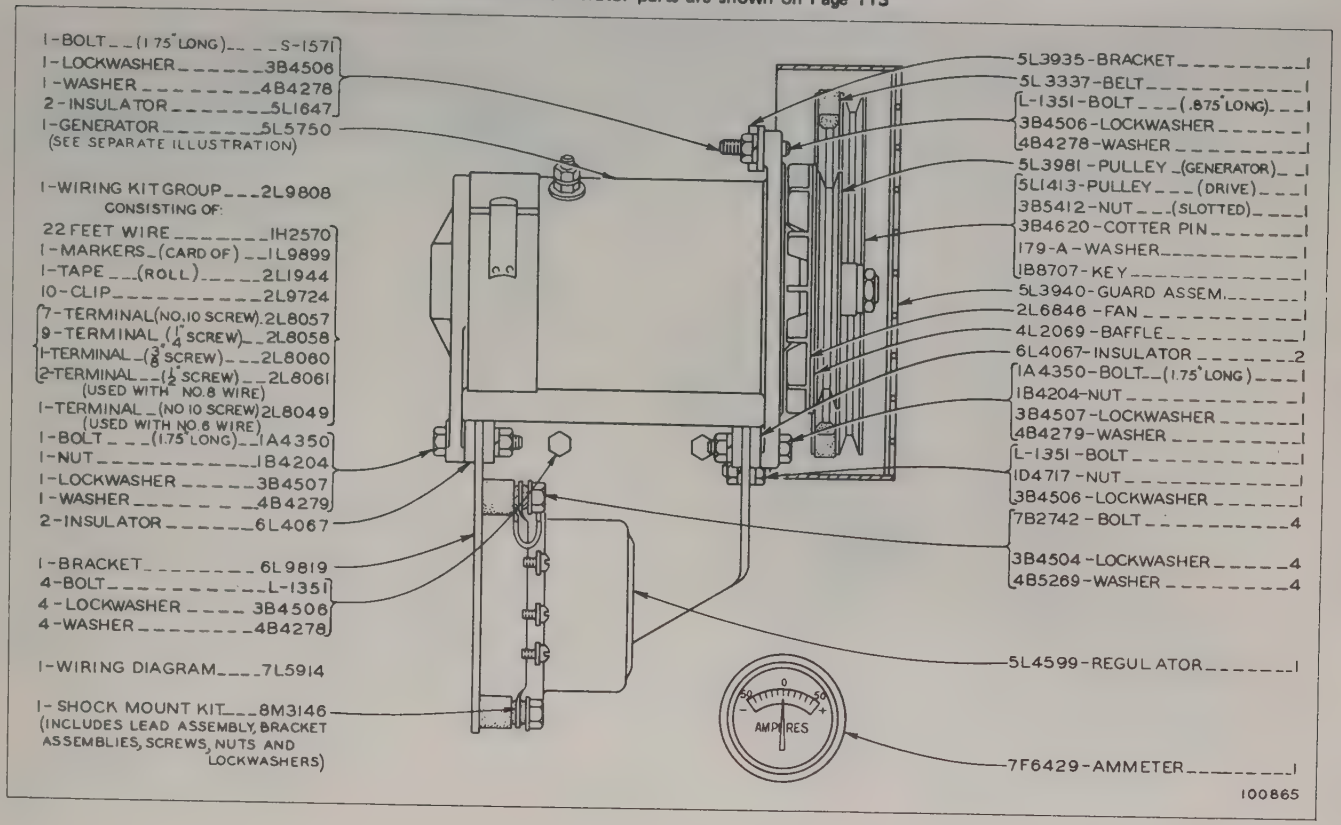
| | | | |
|---|---|---|---|
| 6 | 1L5686 | CABLE ASSEM. ---------- | 1 |
| 7 | 5M9205 | TERMINAL ASSEM. ---------- | 1 |
| 8 | 1M6119 | BOLT---------- | 1 |
| | 1M6120 | NUT---------- | 1 |
| 9 | 5M9204 | TERMINAL ASSEM. ---------- | 1 |
| 10 | 1M6119 | BOLT---------- | 1 |
| | 1M6120 | NUT---------- | 1 |

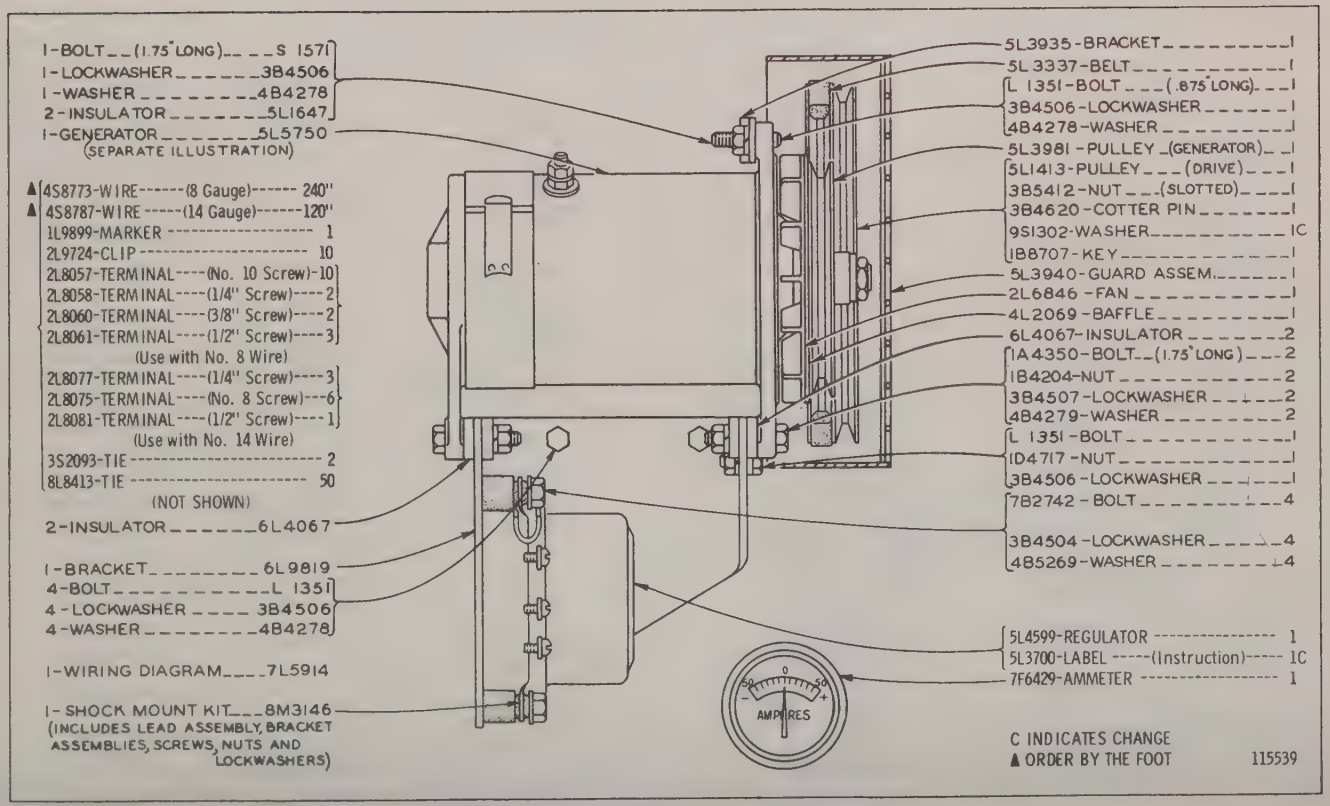
142640

3N4653 BATTERY GROUP—24 Volt, 300 Ampere Hours

## 5L1978 GENERATOR GROUP—12 Volt, 35 Ampere—Type 1

5L5750 Generator parts are shown on Page 113

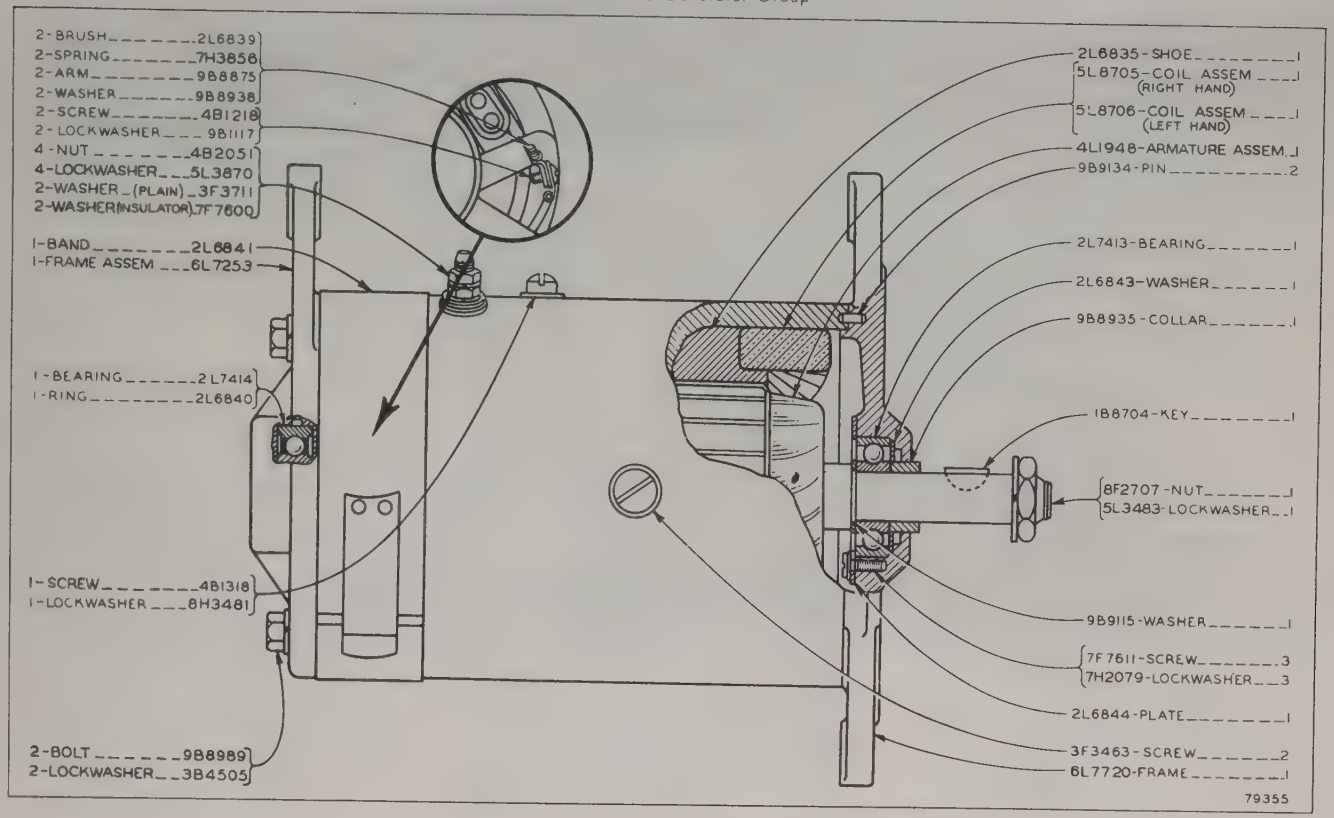


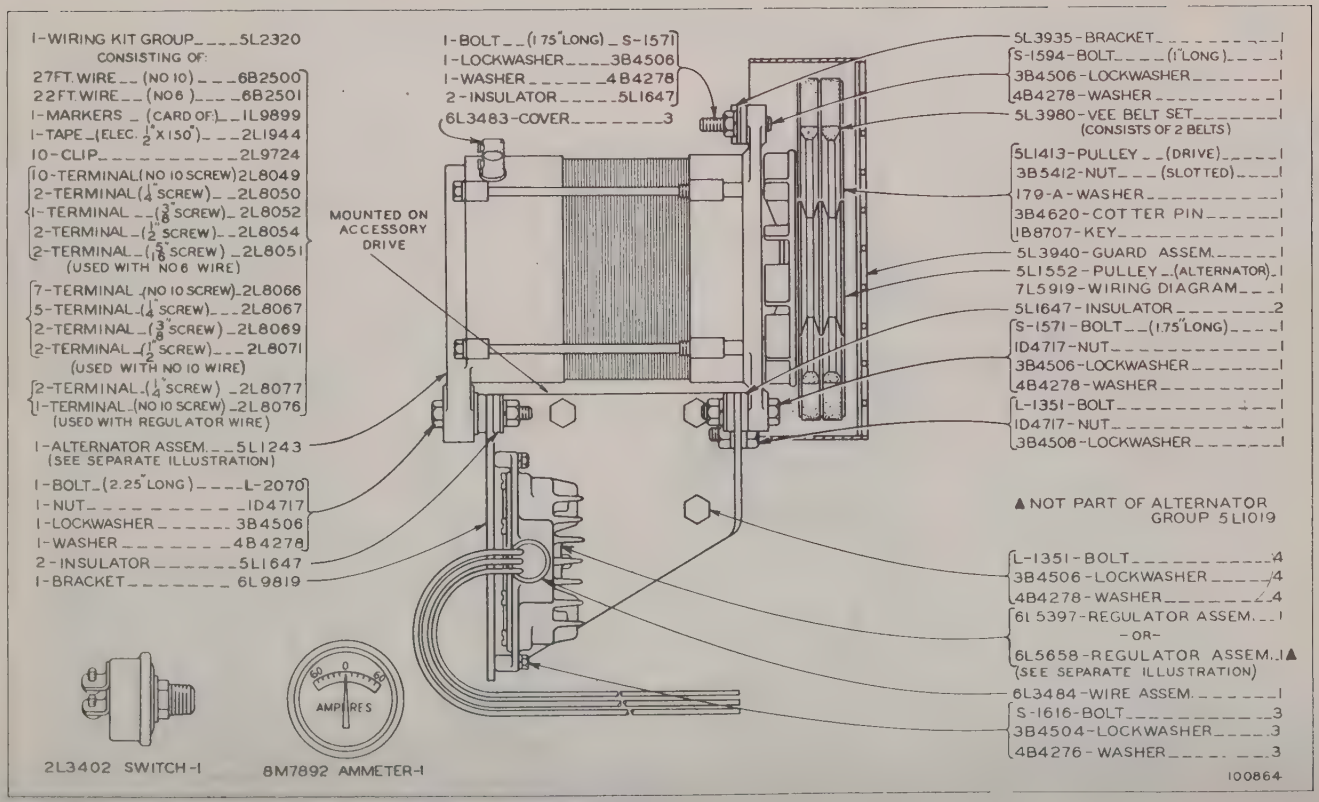



5L1978 GENERATOR GROUP—12 Volt, 35 Ampere—Type 2

## 5L5750 GENERATOR ASSEMBLY—12 Volt, 35 Ampere

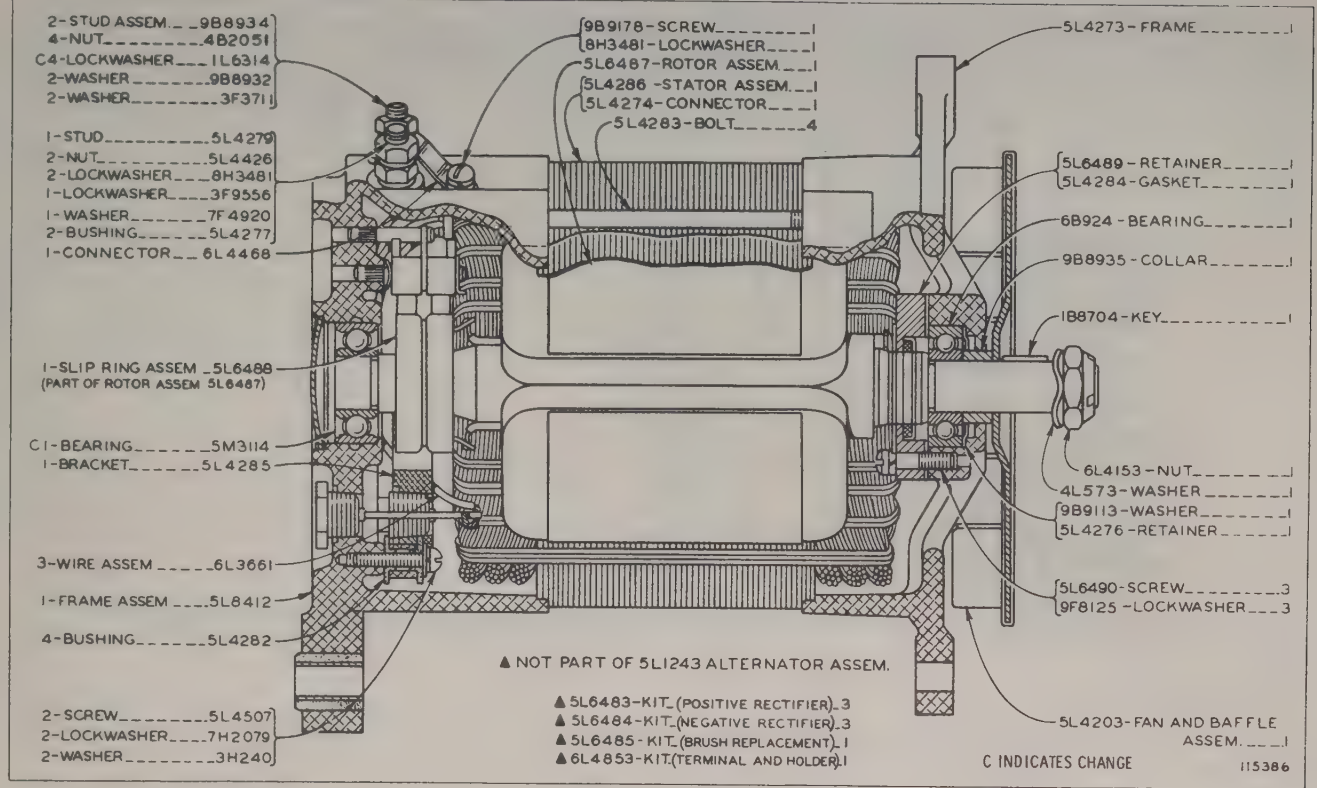
Part of 5L1978 Generator Group

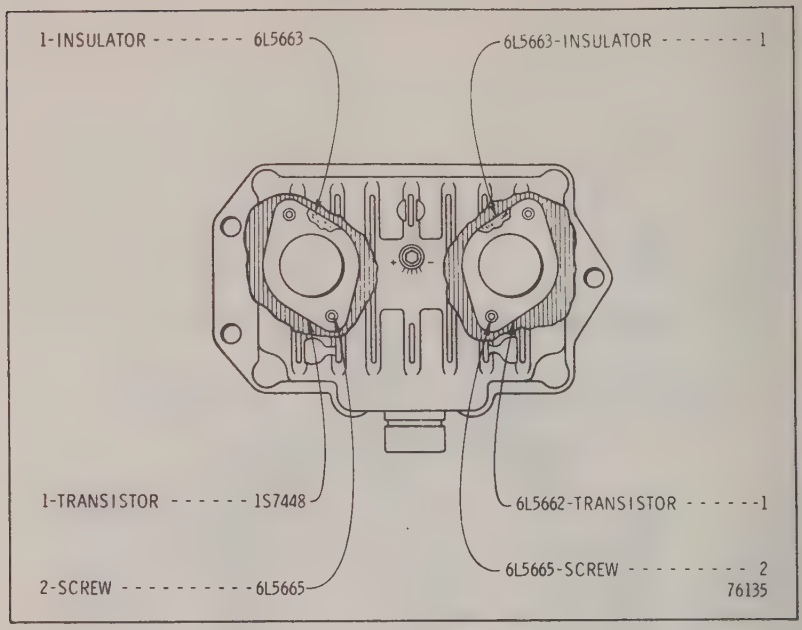




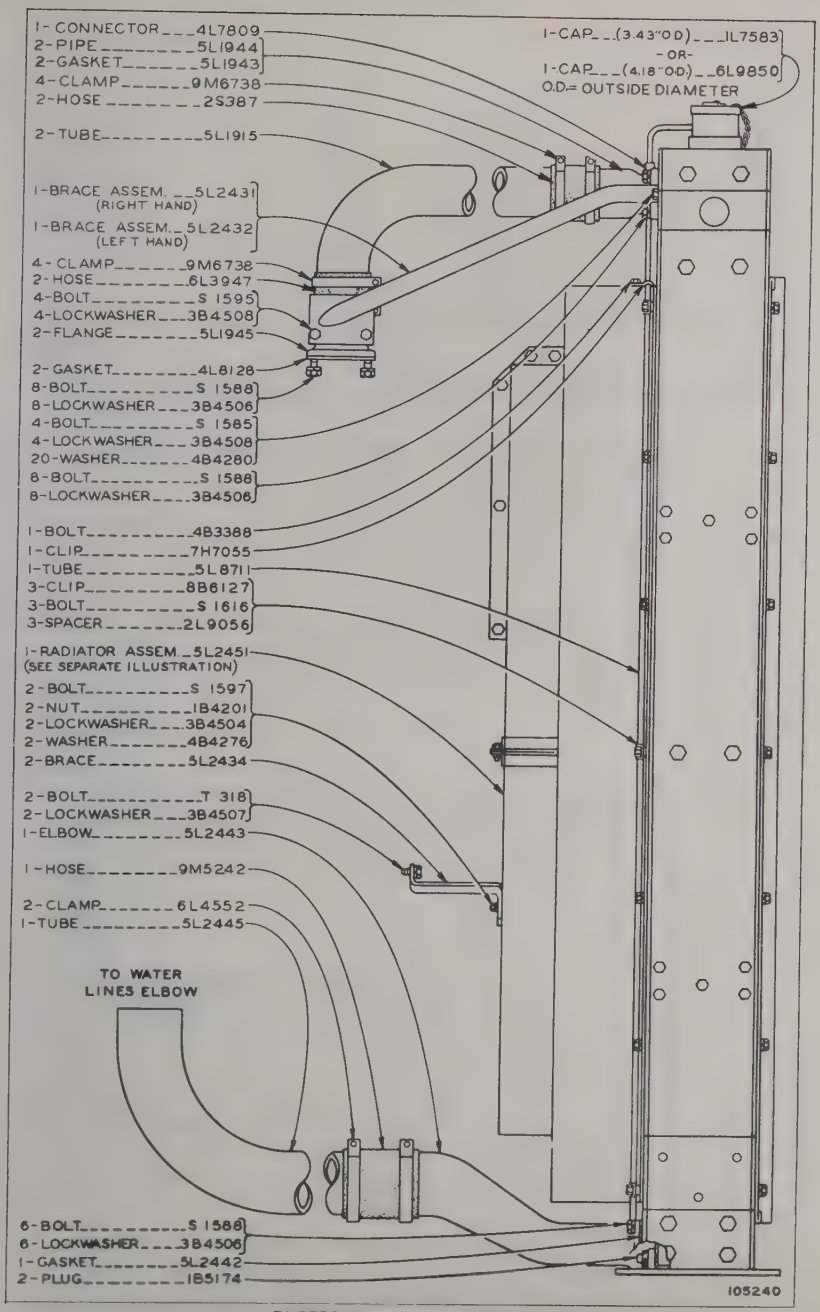

5L1019 ALTERNATOR GROUP--32 VOLT, 60 AMPERE
6L5397 AND 6L5658 REGULATOR ASSEMBLY PARTS ARE SHOWN ON PAGE 116
FOR 30 VOLT APPLICATION SUBSTITUTE 6L5658 FOR 6L5397

## 5L1243 ALTERNATOR ASSEMBLY--32 VOLT, 60 AMPERE
PART OF 5L1019 ALTERNATOR GROUP





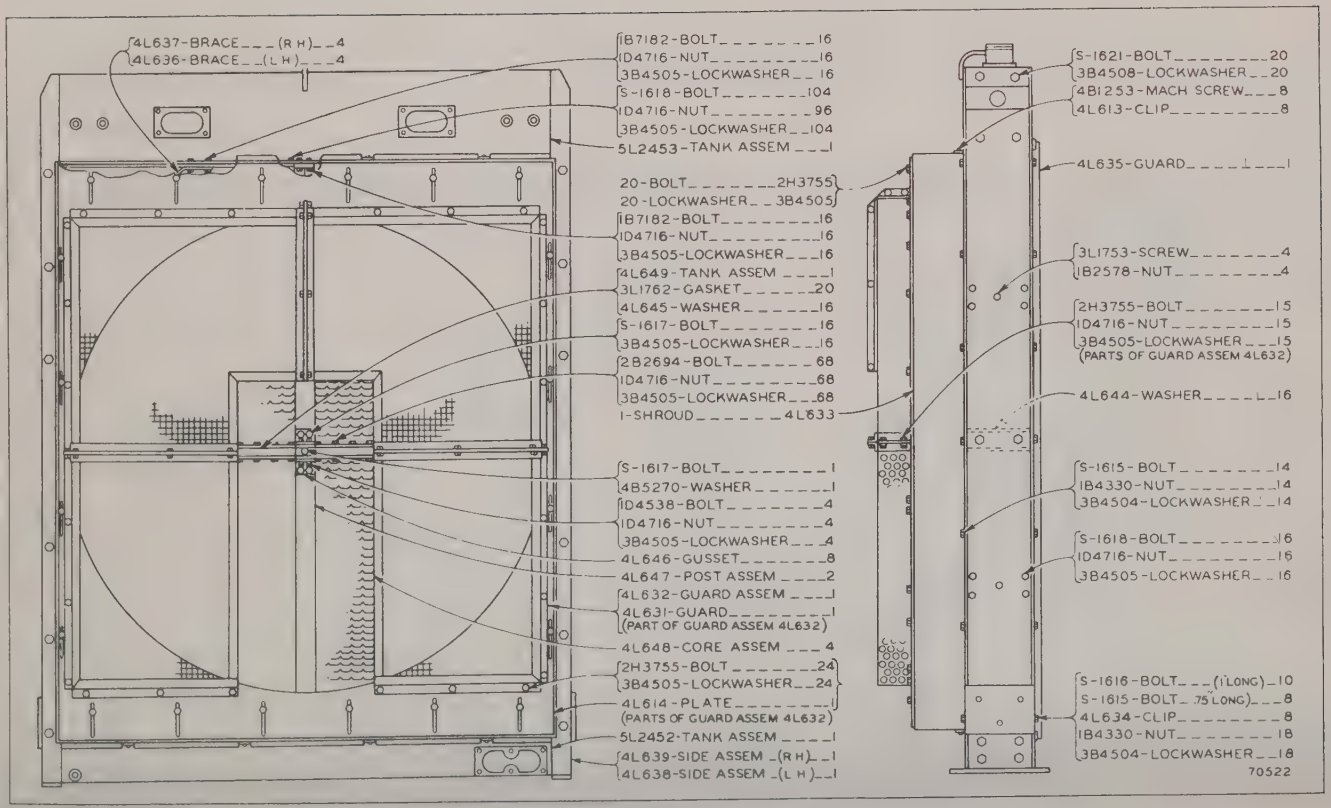

**6L5397 REGULATOR ASSEMBLY—32 Volt**
Part of 5L1019 Alternator Group shown on Page 114
**6L5658 REGULATOR ASSEMBLY—30 Volt**
For use with 5L1019 Alternator Group shown on Page 114




5L2382 RADIATOR GROUP

850 H.P. at 1300 R.P.M. without Fan, with Torque Converter at 70% efficiency, 70% load factor in 110°F. ambient air. 850 H.P. at 1300 R.P.M. without Fan, without Torque Converter, 80% load factor in 115°F. ambient air

5L2451 Radiator Assembly parts are shown on Page 116R



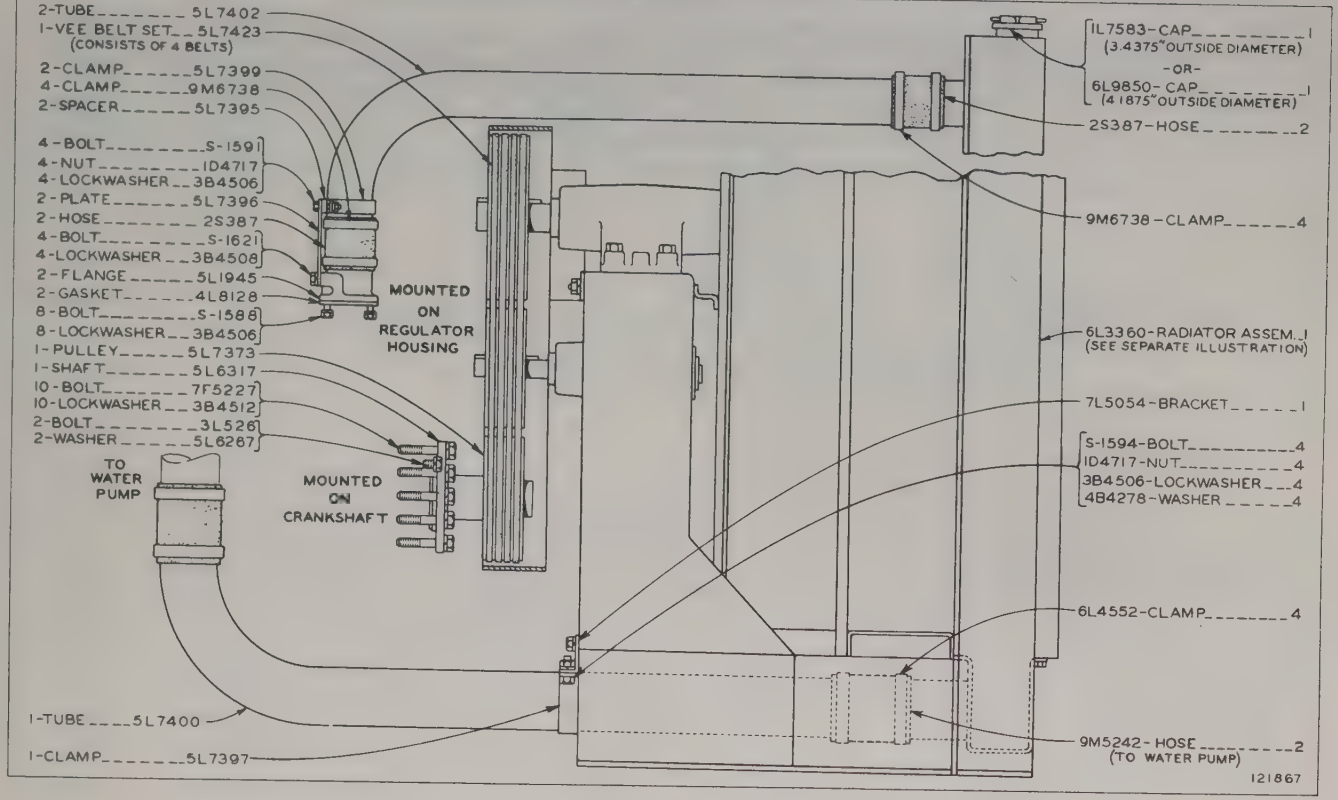

**5L2451 RADIATOR ASSEMBLY**

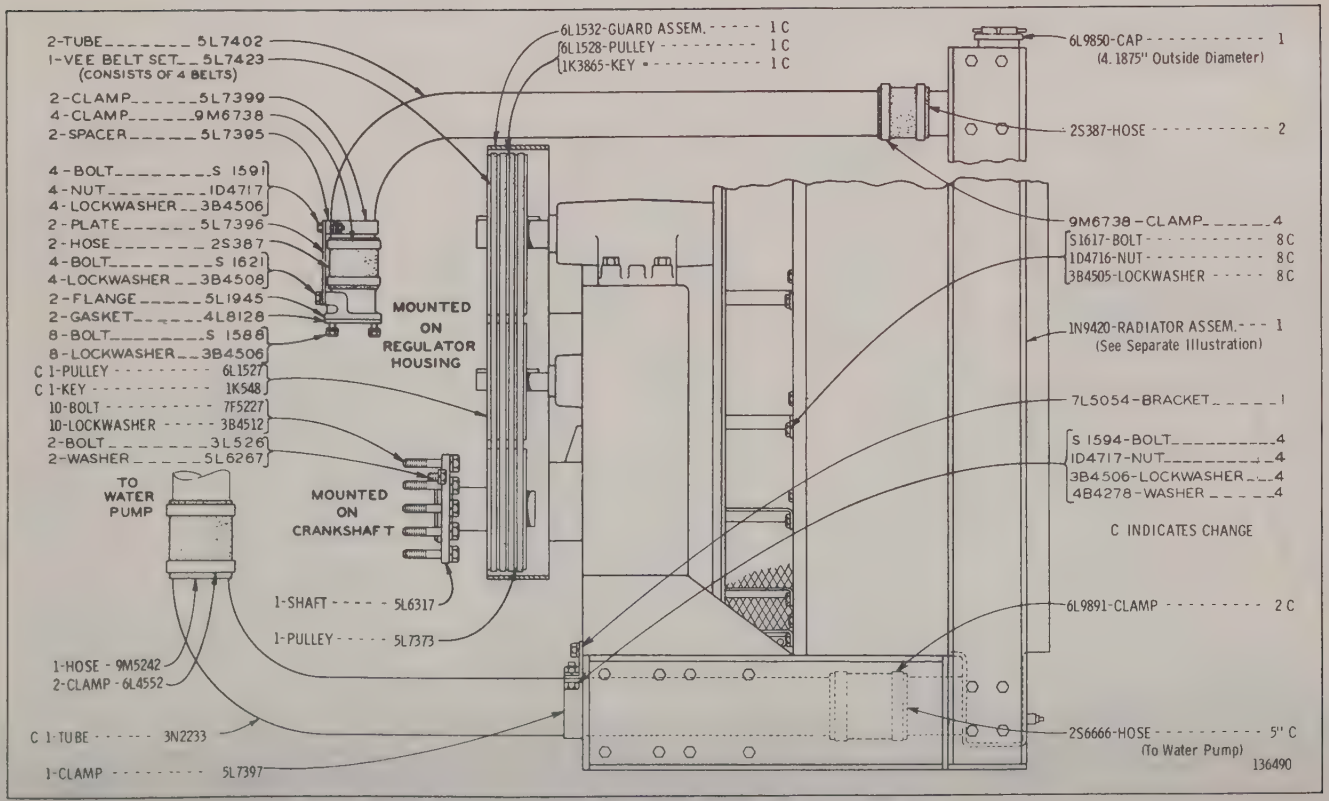
Part of 5L2382 Radiator Group shown on Page 116A

## 5L7458 RADIATOR AND FAN DRIVE GROUP—Blower—Type 1

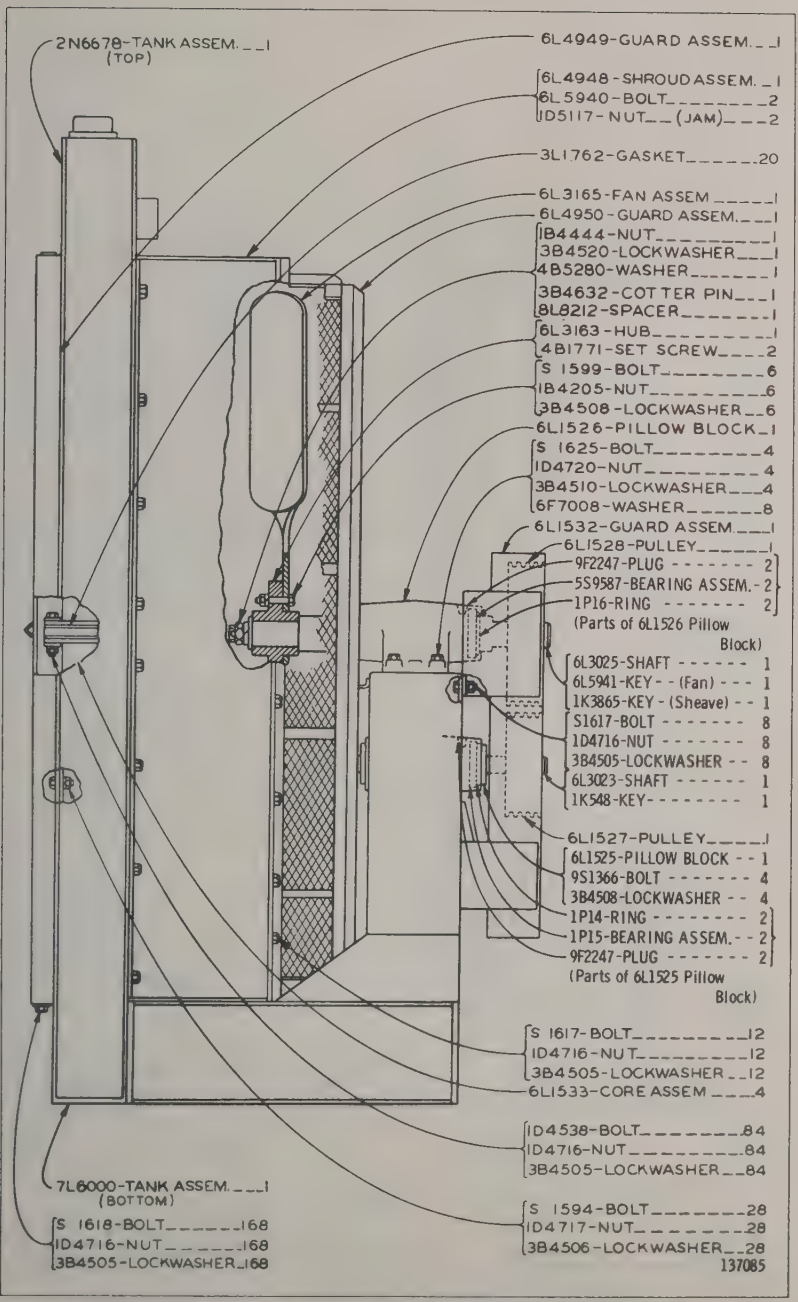
S.A.E. Standard Engine Rotation—110° F. Ambient Air

6L3360 Radiator and Blower Fan parts are shown on Page 116E

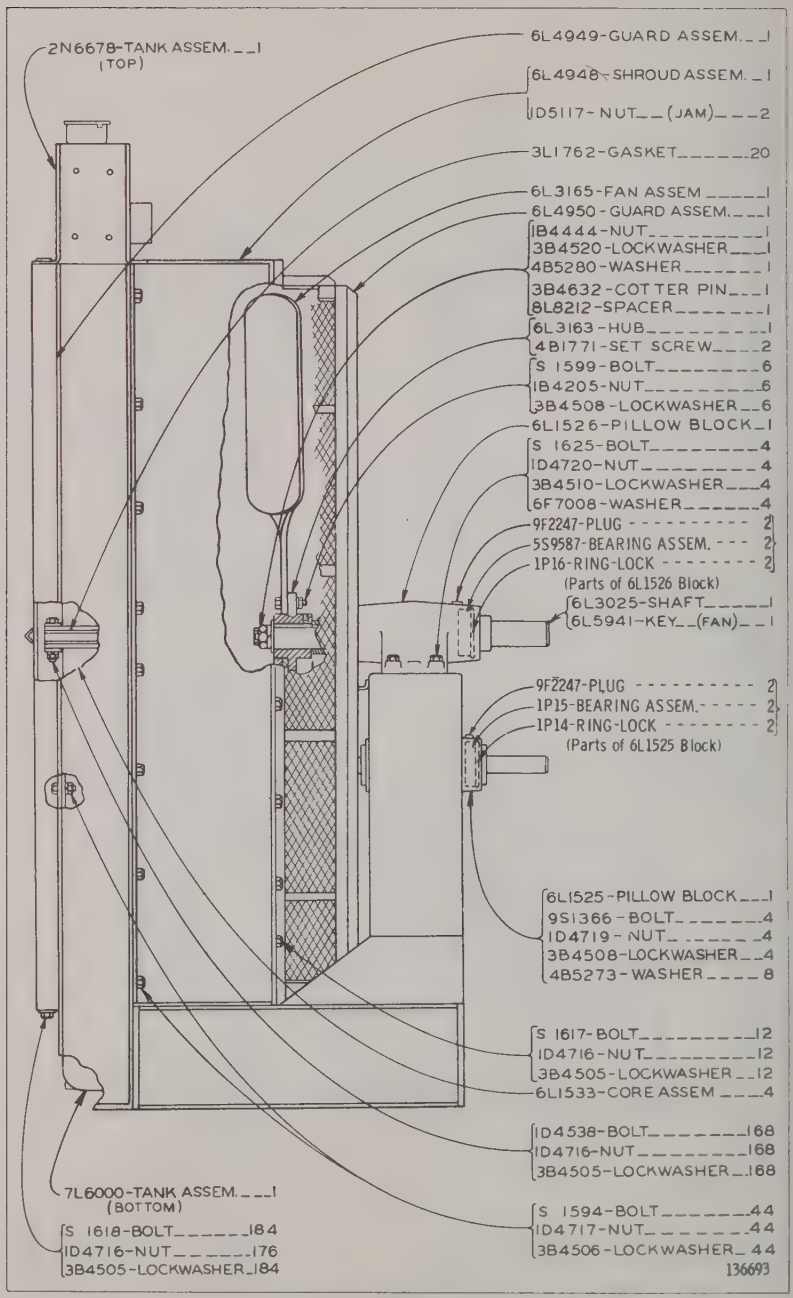





5L7458 RADIATOR AND FAN DRIVE GROUP—Blower—Type 2
S.A.E. Standard Engine Rotation—110° F. Ambient Air
1N9420 Radiator and Blower Fan parts are shown on Page 116F




6L3360 RADIATOR AND BLOWER FAN ASSEMBLY—110° F. Ambient Air
Part of 5L7458 Radiator and Fan Drive Group shown on Page 116C
Note: 6L3166 Fan Assembly—Suction—60 Inch—8 Blade—S.A.E. Standard Engine Rotation is available

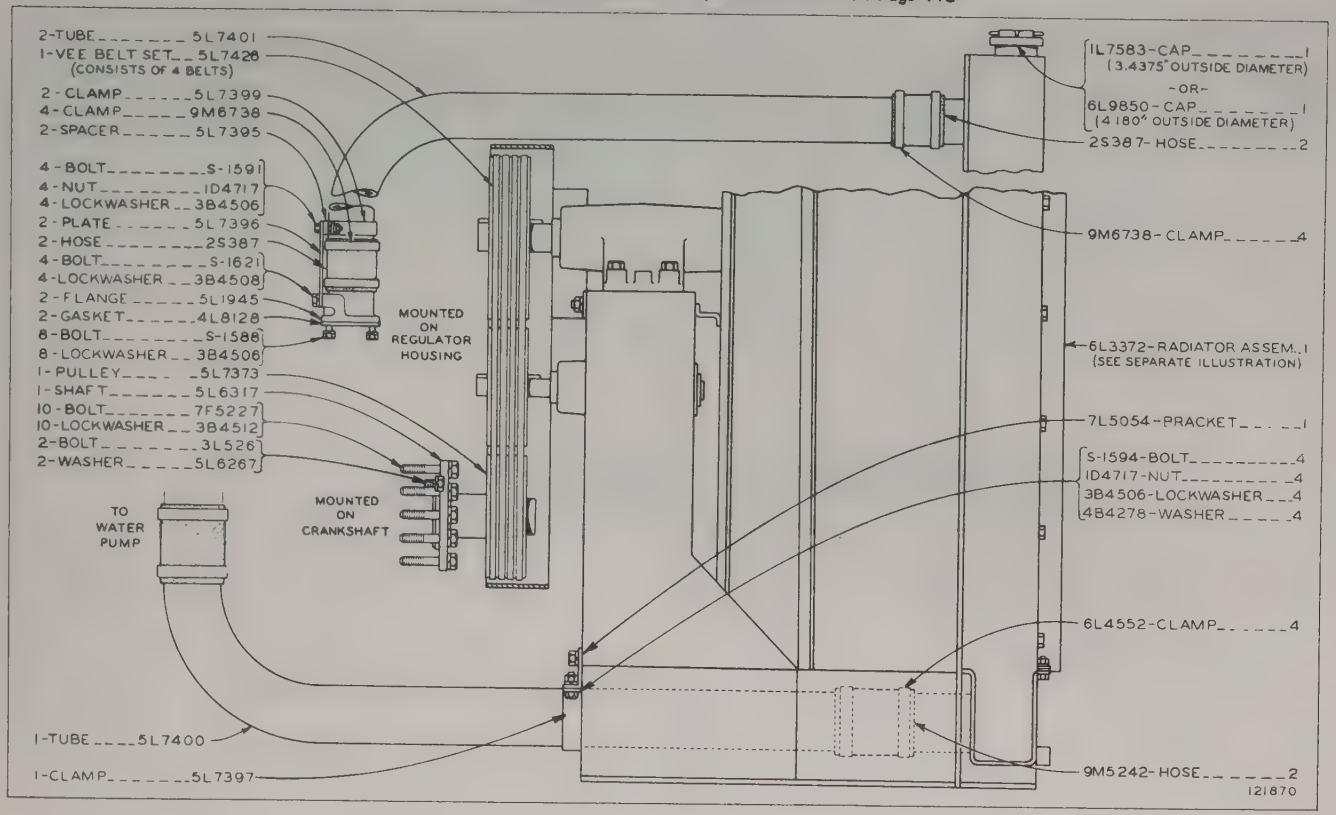


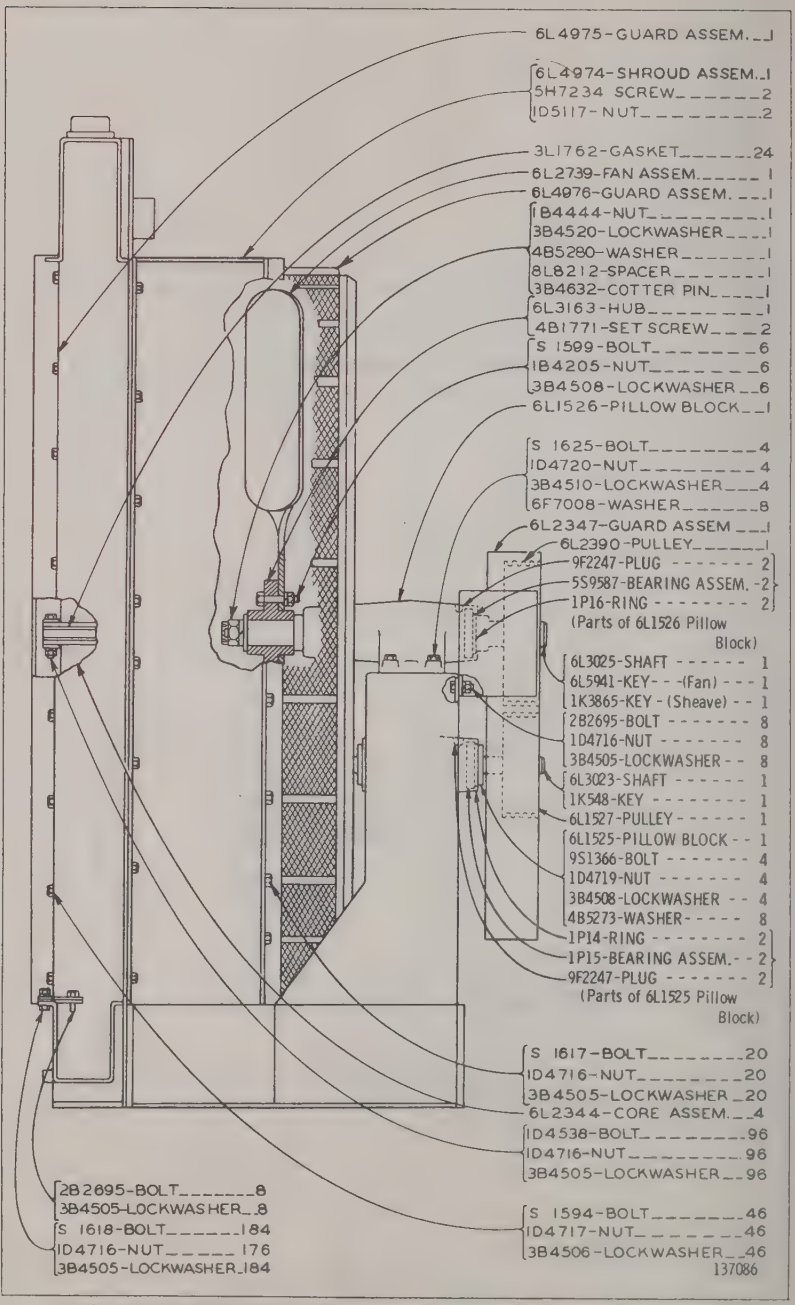

1N9420 RADIATOR AND BLOWER FAN ASSEMBLY—110 Degrees F. Ambient Air

Part of 5L7458 Radiator and Fan Drive Group shown on Page 116D. Note: 6L3166 Fan Assembly—Suction—60 Inch—8 Blade—S.A.E. Standard Engine Rotation is available

## 5L7482 RADIATOR AND FAN DRIVE GROUP—Blower—S.A.E. Standard Engine Rotation—125° F. Ambient Air

6L3372 Radiator and Blower Fan parts are shown on Page 118

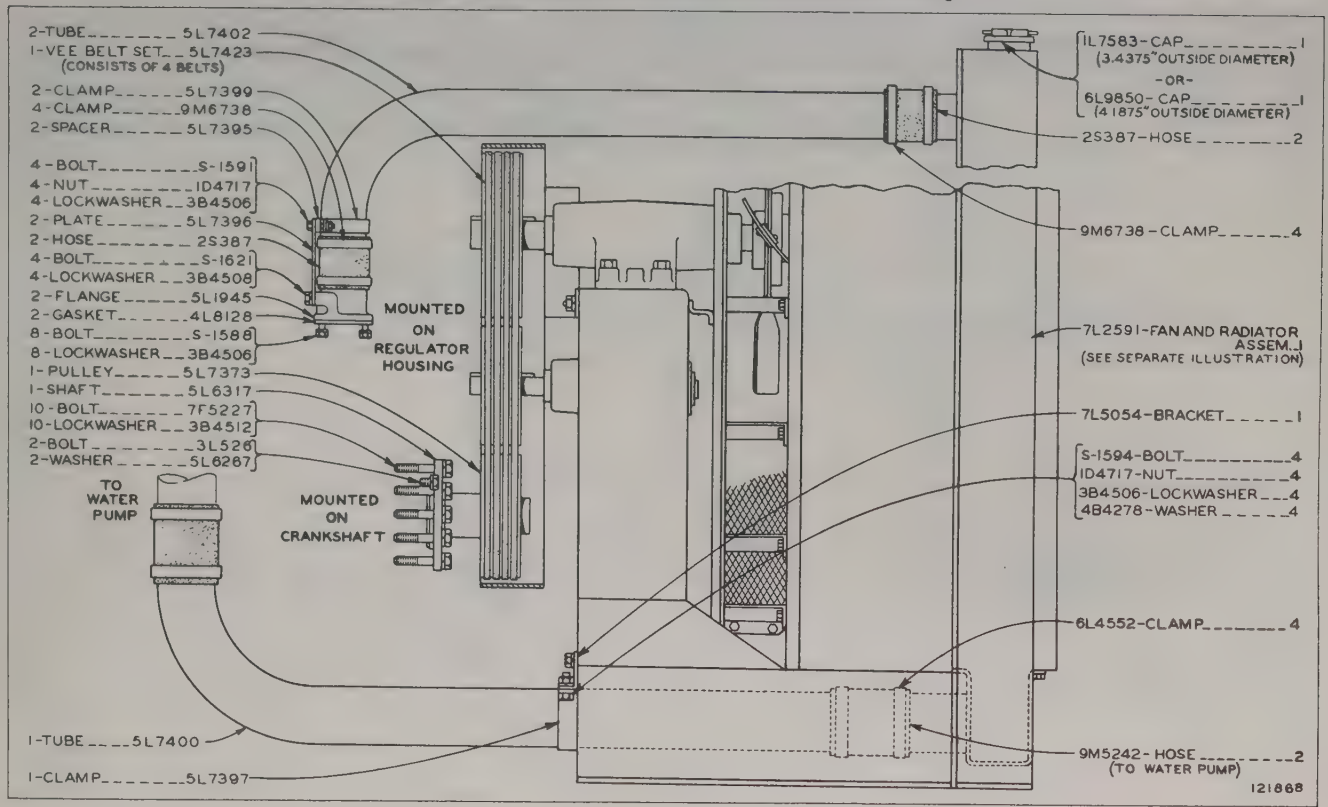


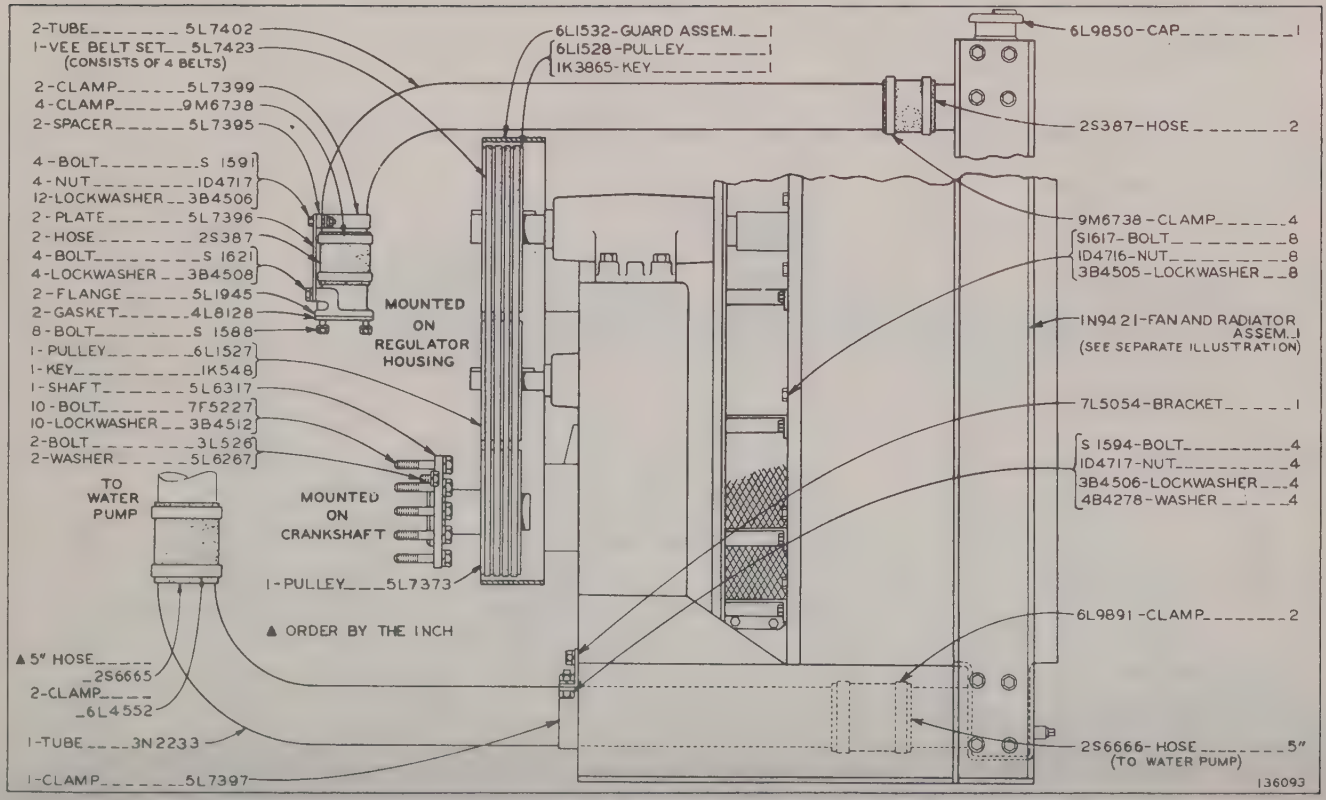



6L3372 RADIATOR AND BLOWER FAN ASSEMBLY—125° F. Ambient Air
Part of 5L7482 Radiator and Fan Drive Group shown on Page 117
Note: 6L3164 Fan Assembly—Suction—72 Inch—8 Blade—S.A.E. Standard Engine Rotation is available

7L2667 RADIATOR AND FAN DRIVE GROUP—Suction—S.A.E. Standard Engine Rotation—110° F. Ambient Air—Type 1

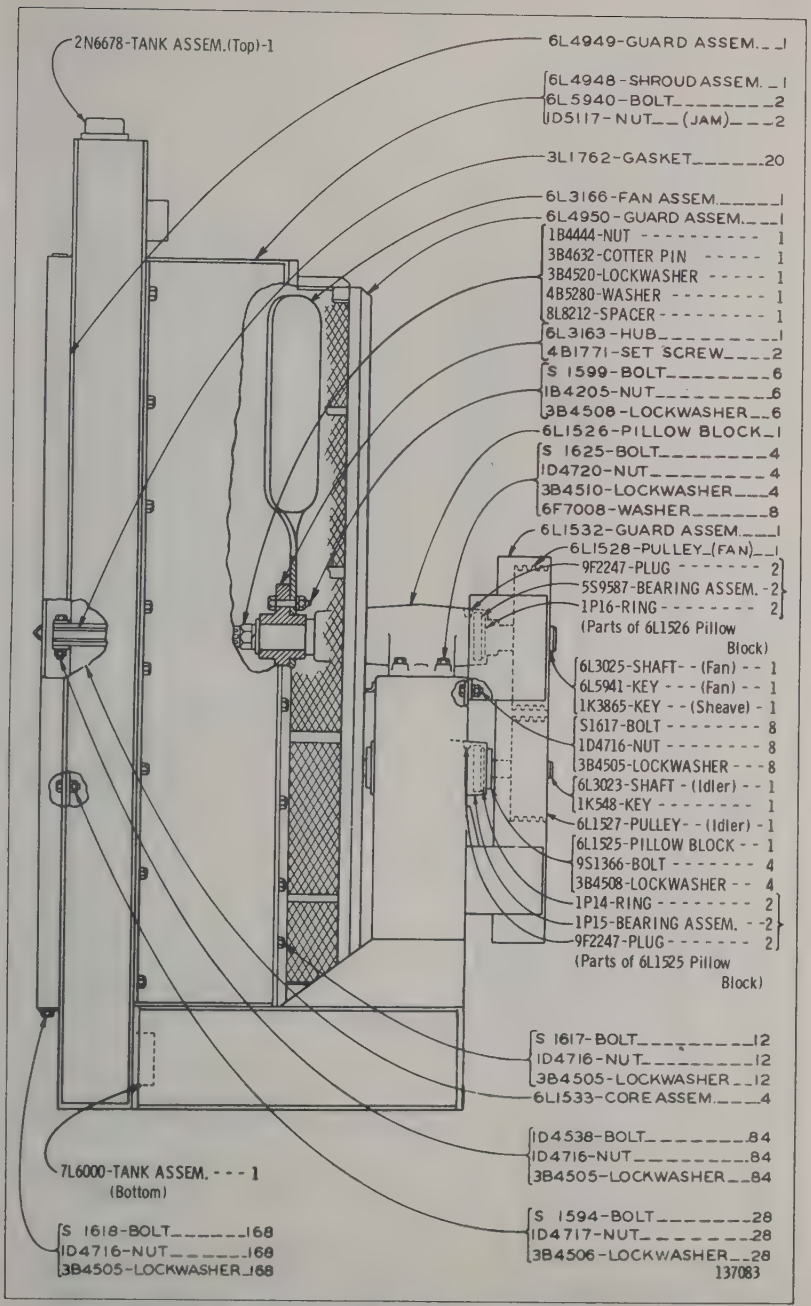
7L2591 Radiator and Suction Fan Assembly parts are shown on Page 119



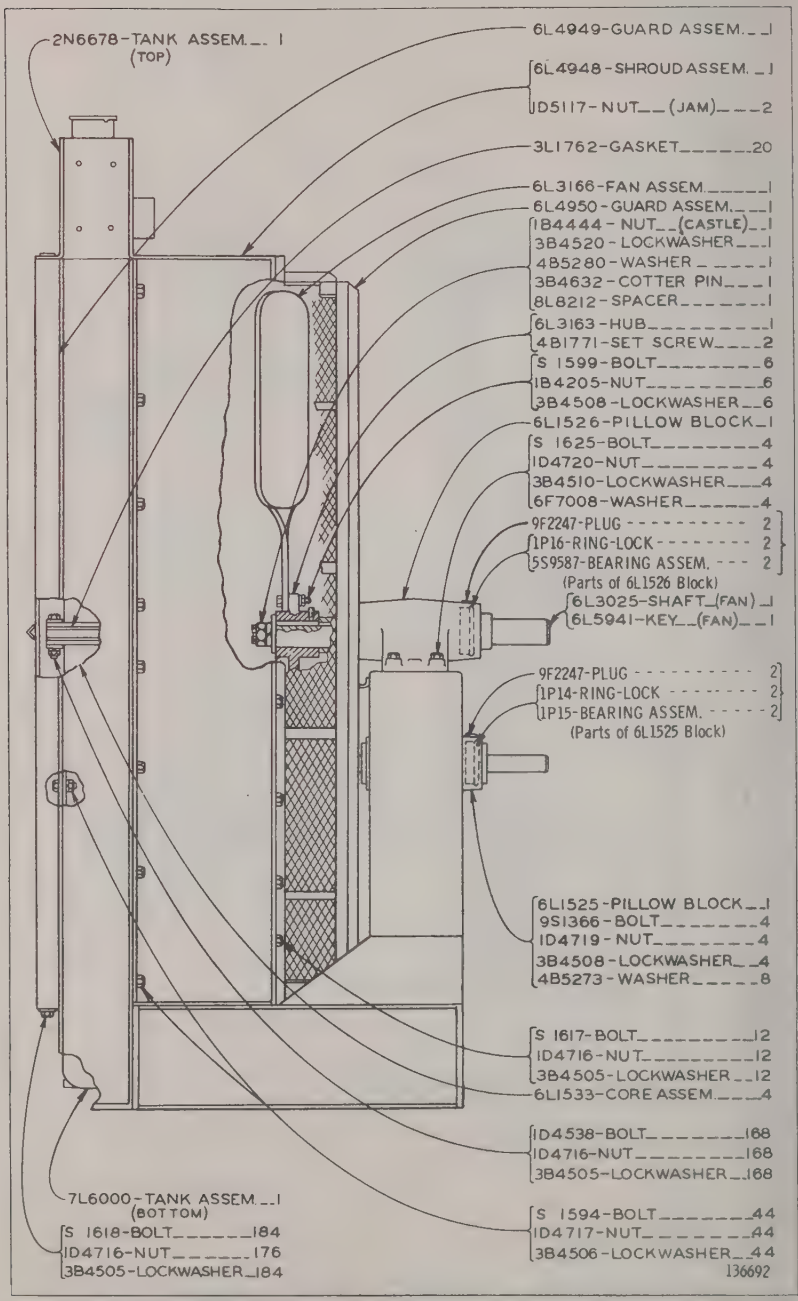



7L2667 RADIATOR AND FAN DRIVE GROUP–Suction–S.A.E. Standard Engine Rotation–110° F. Ambient Air–Type 2

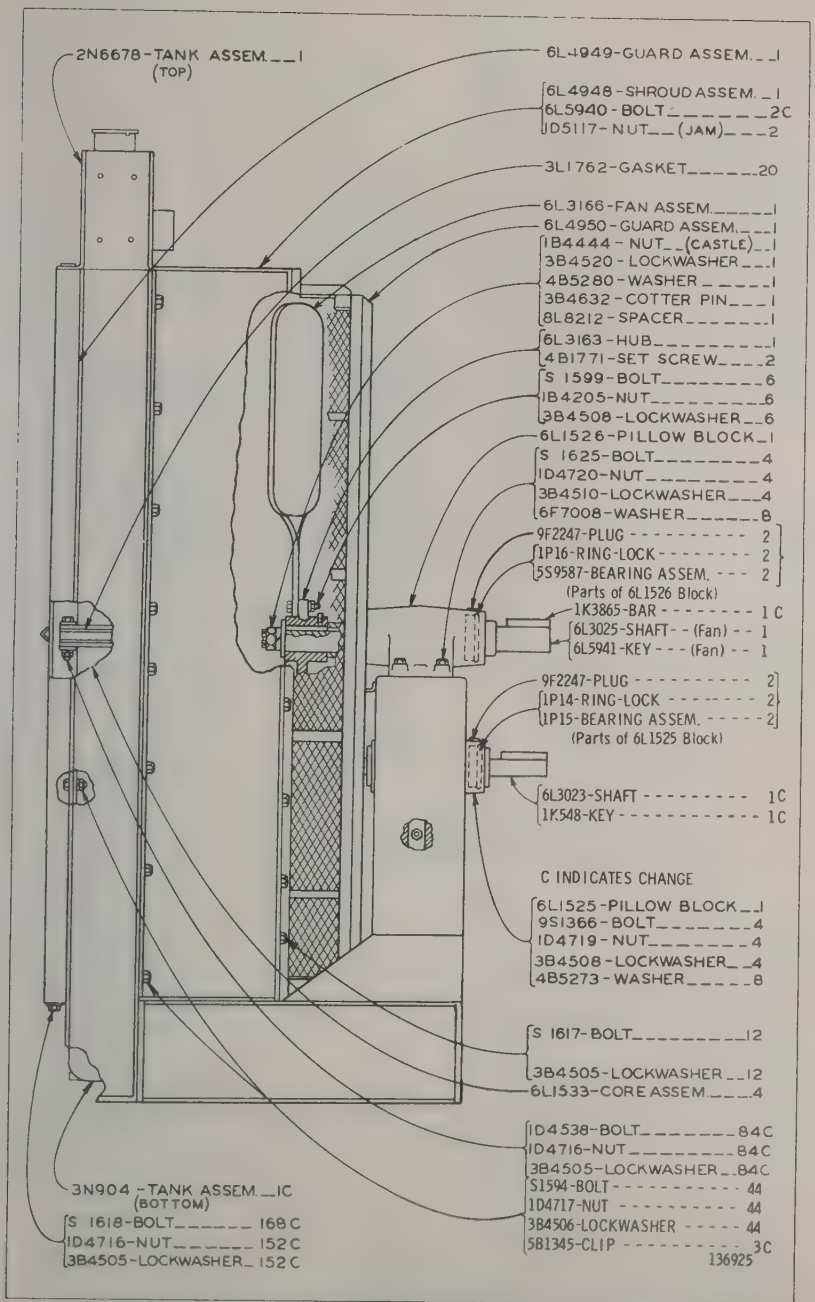
1N9421 Radiator and Suction Fan parts are shown on Pages 120 and 120A



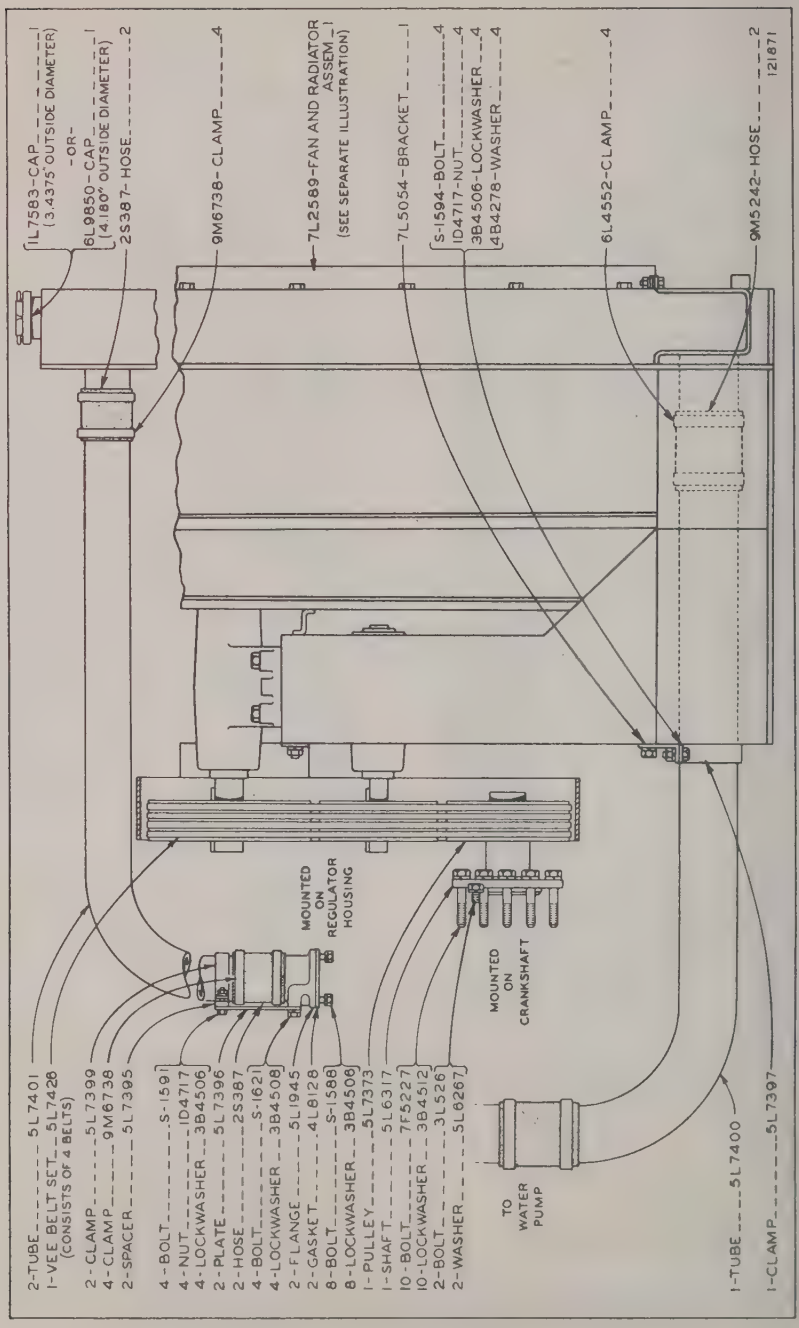

**7L2591 RADIATOR AND SUCTION FAN ASSEMBLY—110° F. Ambient Air**
Part of 7L2667 Radiator and Fan Drive Group shown on Page 118A



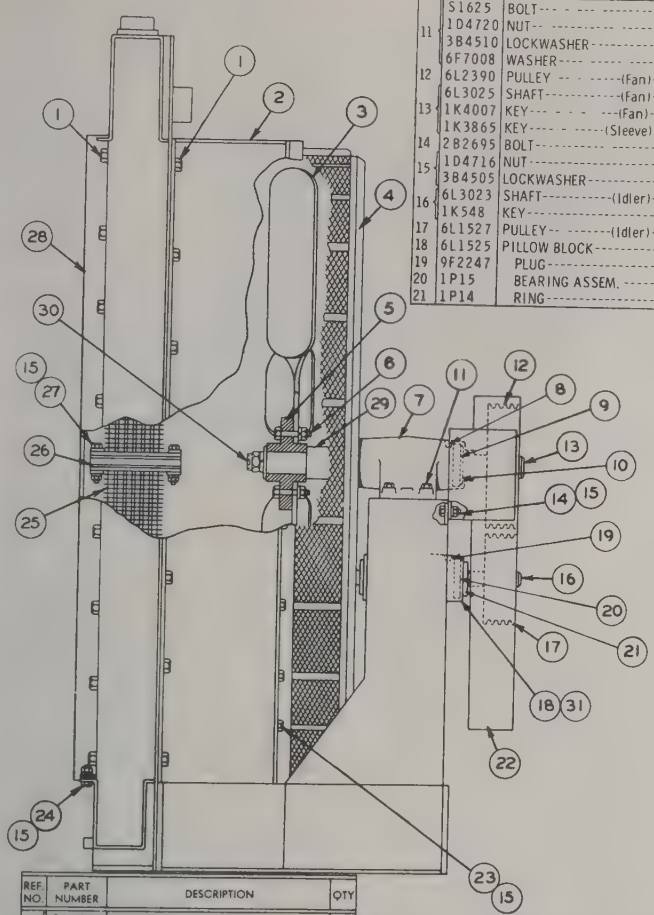

1N9421 RADIATOR AND SUCTION FAN ASSEMBLY—125° F. Ambient Air—Type 1
Part of 7L2667 Radiator and Fan Drive Group shown on Page 118B




1N9421 RADIATOR AND SUCTION FAN ASSEMBLY—125° F. Ambient Air—Type 2
Part of 7L2667 Radiator and Fan Drive Group shown on Page 118B




7L2668 RADIATOR AND FAN DRIVE GROUP–Suction–S.A.E. Standard Engine Rotation–125° F. Ambient Air

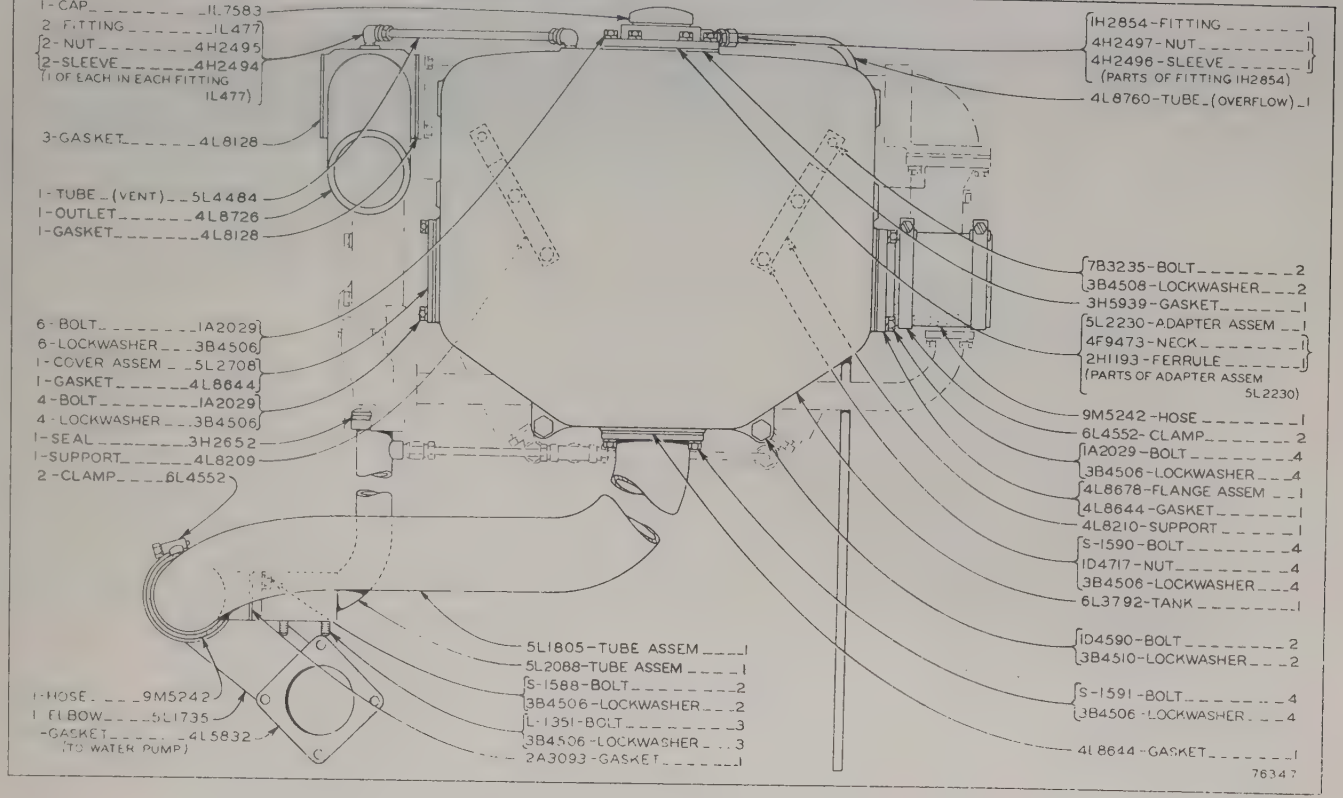


| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| | S1594 | BOLT | 46 |
| 1 | 1D4717 | NUT | 46 |
| | 3B4506 | LOCKWASHER | 46 |
| | 6L4974 | SHROUD ASSEM. | 1 |
| 2 | 5H7234 | SCREW | 2 |
| | 1D5117 | NUT | 2 |
| 3 | 6L3164 | FAN ASSEM. | 1 |
| 4 | 6L4976 | GUARD ASSEM. (Fan) | 1 |
| 5 | 6L3163 | HUB | 1 |
| | 4B1771 | SET SCREW | 2 |
| | S1599 | BOLT | 6 |
| 6 | 1B4205 | NUT | 6 |
| | 3B4508 | LOCKWASHER | 6 |
| 7 | 6L1526 | PILLOW BLOCK | 1 |
| 8 | 9F2247 | PLUG | 2 |
| 9 | 5S9587 | BEARING ASSEM. | 2 |
| 10 | 1P16 | RING | 2 |
| 11 | S1625 | BOLT | 4 |
| | 1D4720 | NUT | 4 |
| | 3B4510 | LOCKWASHER | 4 |
| | 6F7008 | WASHER | 8 |
| 12 | 6L2390 | PULLEY (Fan) | 1 |
| 13 | 6L3025 | SHAFT (Fan) | 1 |
| | 1K4007 | KEY (Fan) | 1 |
| | 1K3865 | KEY (Sleeve) | 1 |
| 14 | 2B2695 | BOLT | 8 |
| 15 | 1D4716 | NUT | 172 |
| | 3B4505 | LOCKWASHER | 172 |
| 16 | 6L3023 | SHAFT (Idler) | 1 |
| | 1K548 | KEY | 1 |
| 17 | 6L1527 | PULLEY (Idler) | 1 |
| 18 | 6L1525 | PILLOW BLOCK | 1 |
| 19 | 9F2247 | PLUG | 2 |
| 20 | 1P15 | BEARING ASSEM. | 2 |
| 21 | 1P14 | RING | 2 |
| 22 | 6L2347 | GUARD ASSEM. (Belt) | 1 |
| 23 | S1617 | BOLT | 20 |
| 24 | S1618 | BOLT | 96 |
| 25 | 6L2344 | CORE ASSEM. | 4 |
| 26 | 3L1762 | GASKET | 24 |
| 27 | 1D4538 | BOLT | 48 |
| 28 | 6L4975 | GUARD ASSEM. (Core Screen) | 1 |
| 29 | 8L8212 | SPACER | 1 |
| | 3B4632 | COTTER PIN | 1 |
| 30 | 1B4444 | NUT (Castle) | 1 |
| | 3B4520 | LOCKWASHER | 1 |
| | 4B5280 | WASHER | 1 |
| | 9S1366 | BOLT | 4 |
| 31 | 1D4719 | NUT | 4 |
| | 3B4508 | LOCKWASHER | 4 |
| | 4B5273 | WASHER | 4 |

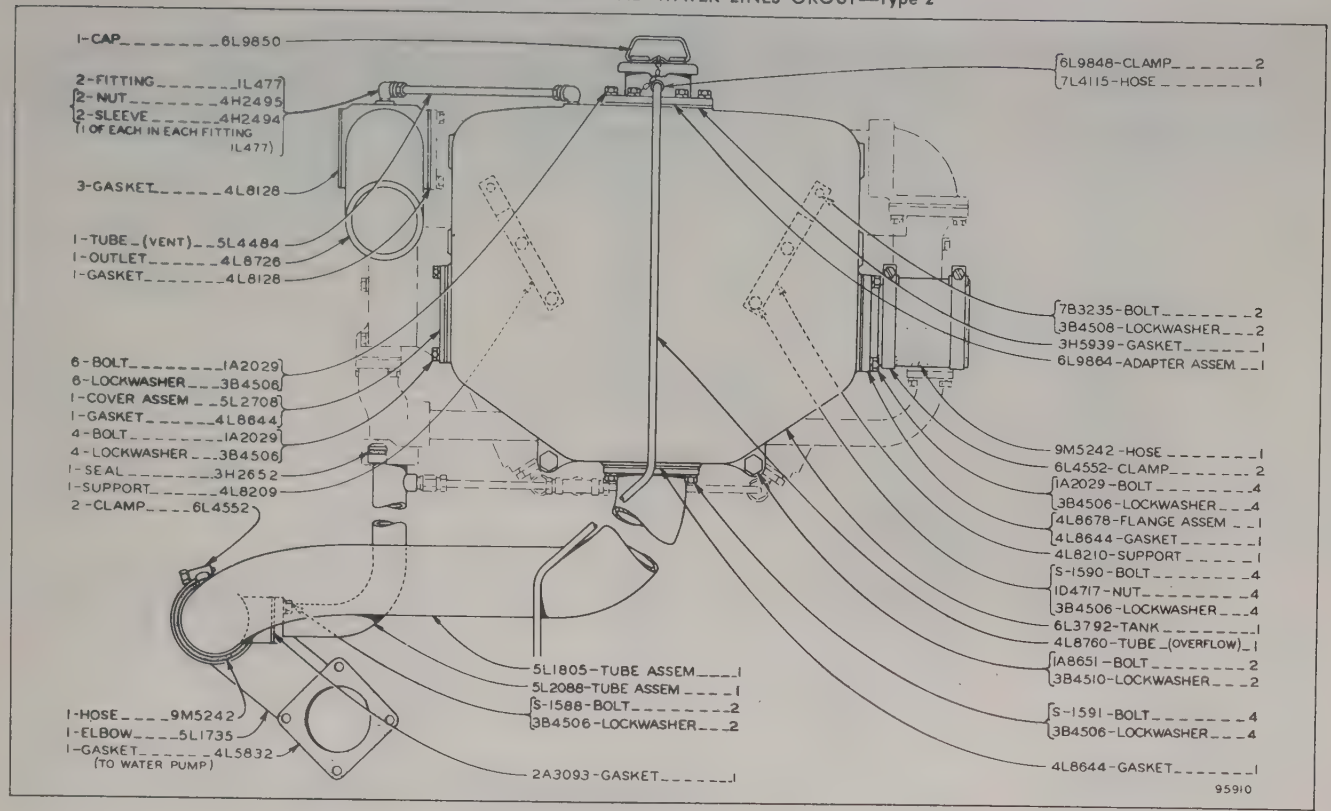
137084

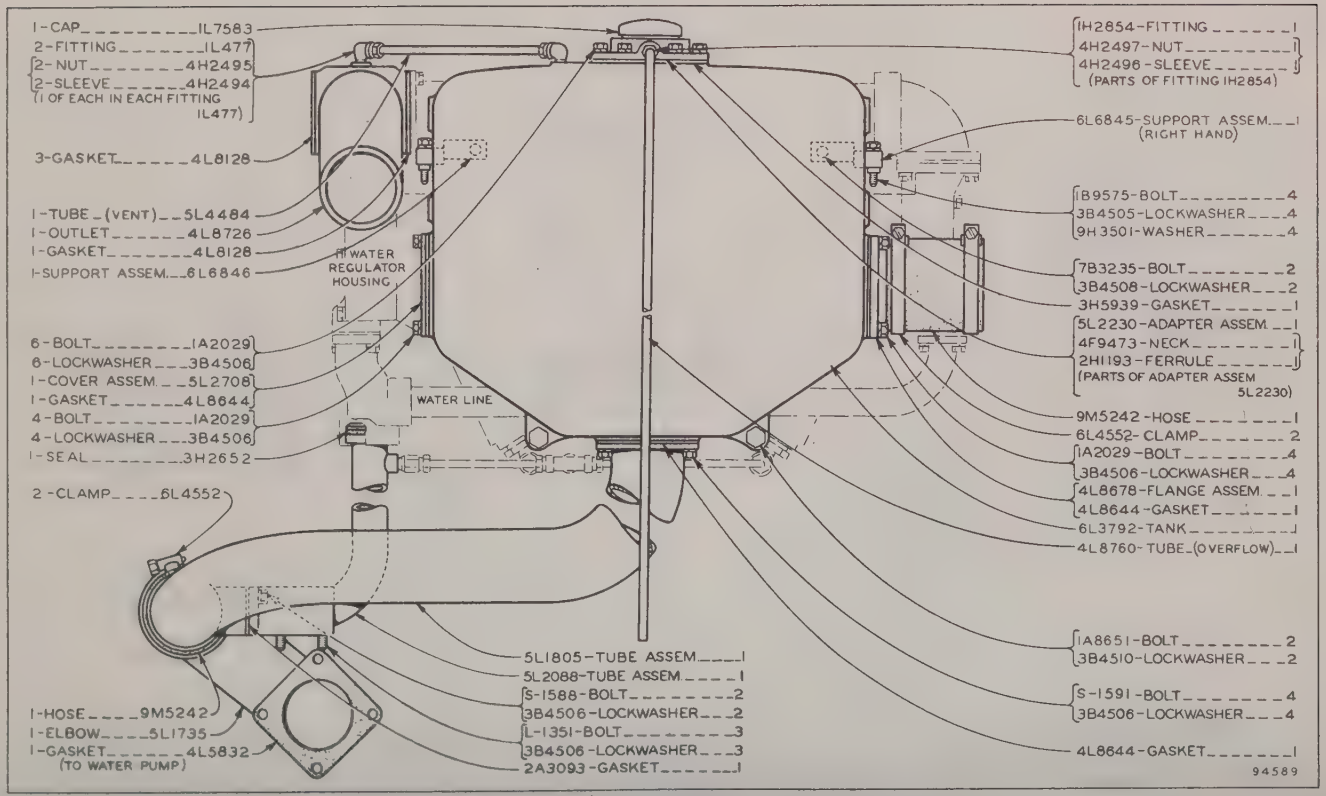
7L2589 RADIATOR AND SUCTION FAN ASSEMBLY—110° F. Ambient Air
Part of 7L2668 Radiator and Fan Drive Group

## 5L2745 SURGE TANK AND WATER LINES GROUP



## 5L2745 SURGE TANK AND WATER LINES GROUP—Type 2

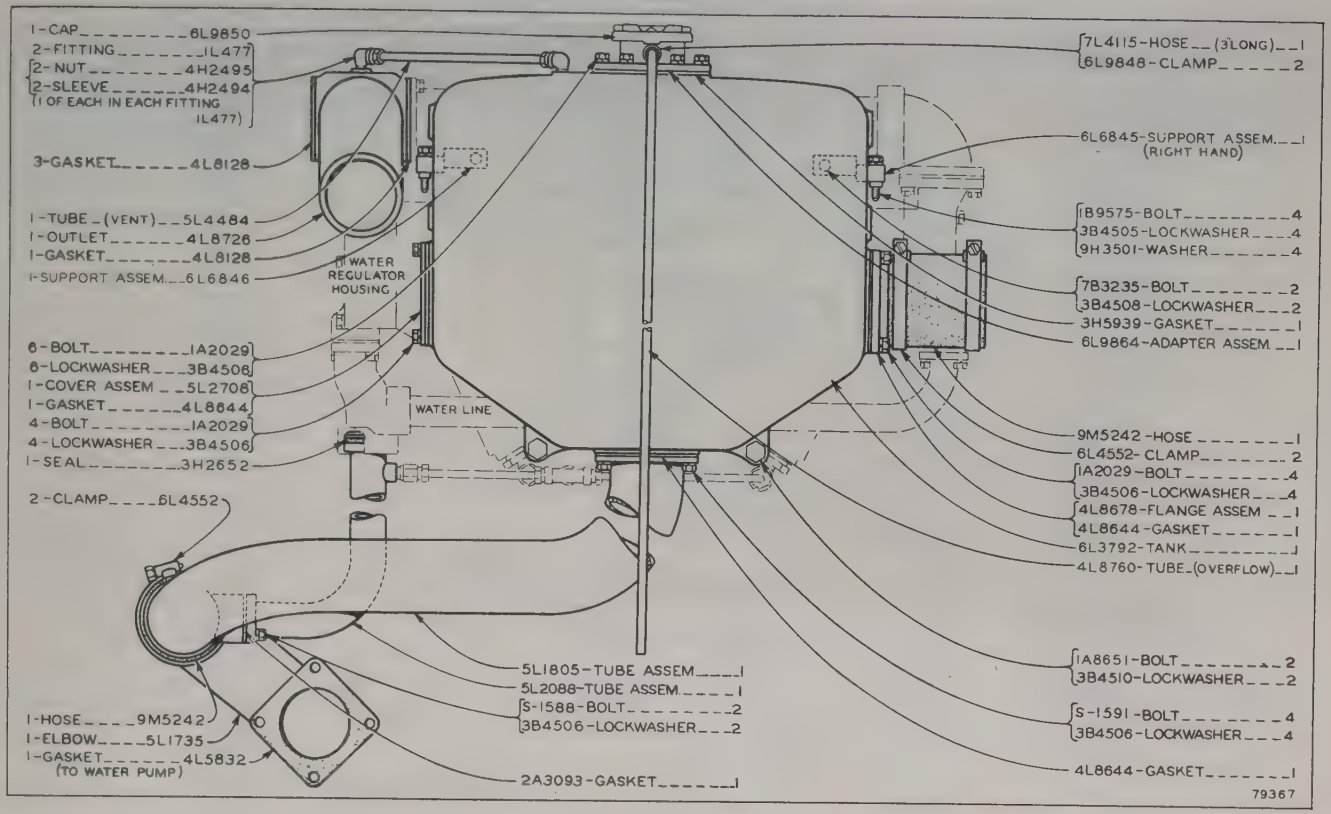


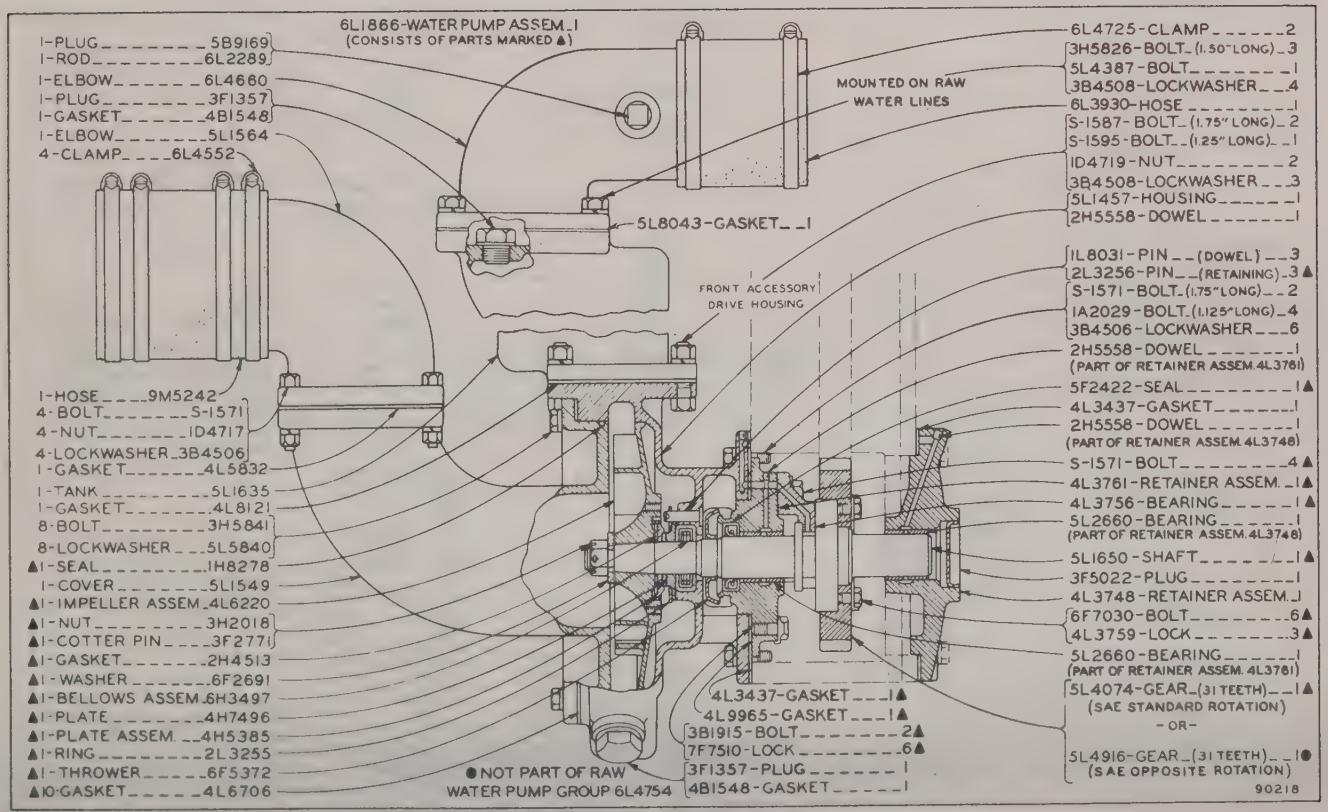



**6L9186 EXPANSION TANK AND WATER LINES GROUP—Type I**
Effective with Serial No. 75B1

## 6L9186 EXPANSION TANK AND WATER LINES GROUP—Type 2

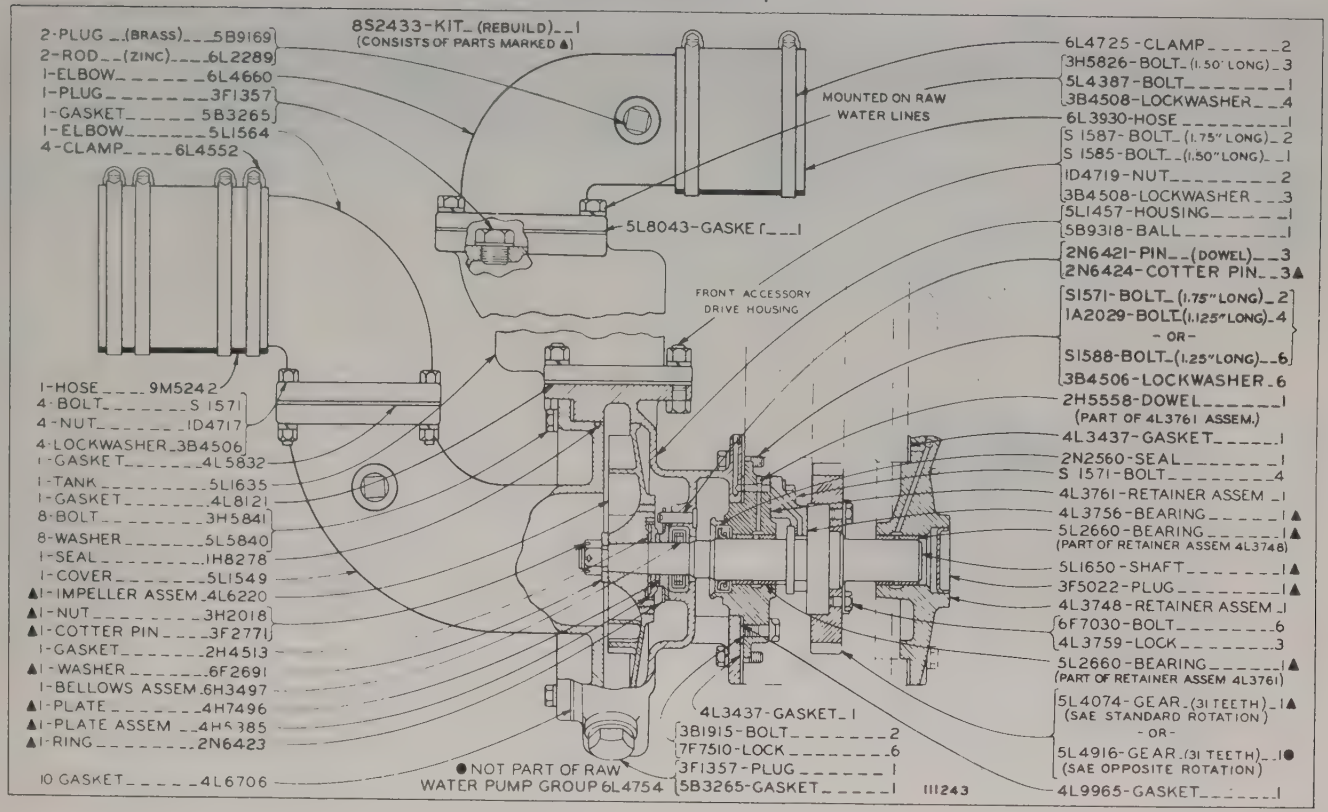
Effective with Serial No. 75B1

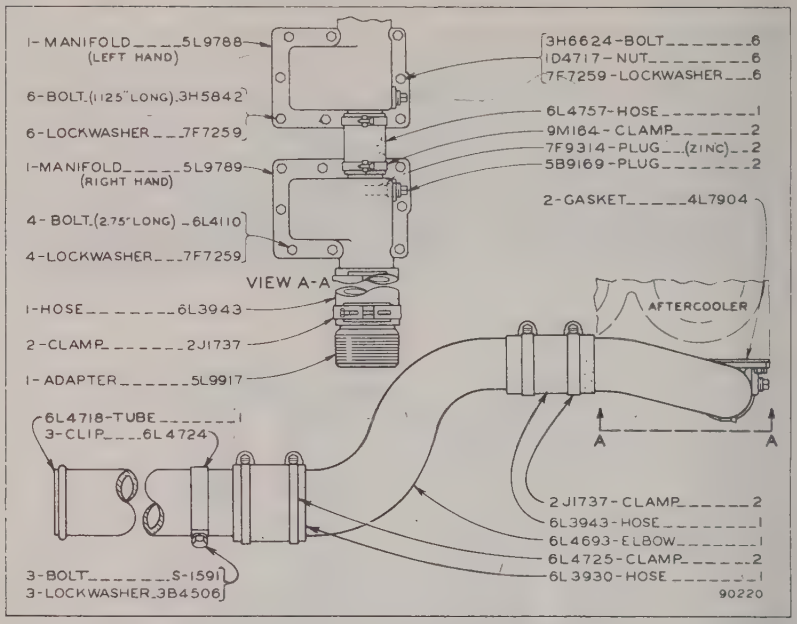





**6L4754 RAW WATER PUMP GROUP—Type 1**
Effective with Serial No. 66B700

## 6L4754 RAW WATER PUMP GROUP—Type 2
Serial No. 66B700—Up






6L4769 RAW WATER LINES GROUP
SERIAL No. 66B700 TO 66B1414 INCLUSIVE

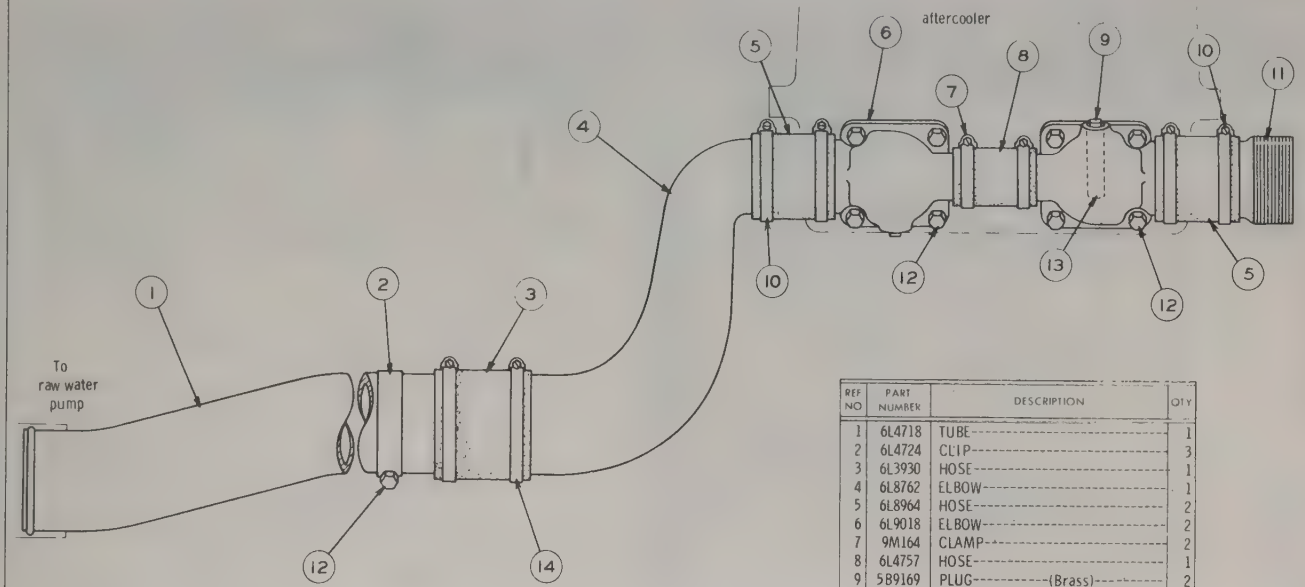
| MAXIMUM HORSEPOWER EXCHANGE WILL COOL | RAW WATER | INDUSTRIAL WATER | | |
|---|---|---|---|---|
| | 85° F. | 85° F. | 100° F. | 120° F. |
| 475 | | | | 5L6504 |
| 600 | | | 5L6504 | |
| 700 | 5L6502 | 5L6504 | | |
| 725 | 5L6502* | | | |
| 800 | | | | 5L6505 |
| 950 | | | 5L6505 | |
| 1025 | 5L6503 | 5L6505 | | |
| 1050 | 5L6503* | | | |

*USE WITH RAW WATER AFTERCOOLING

76367

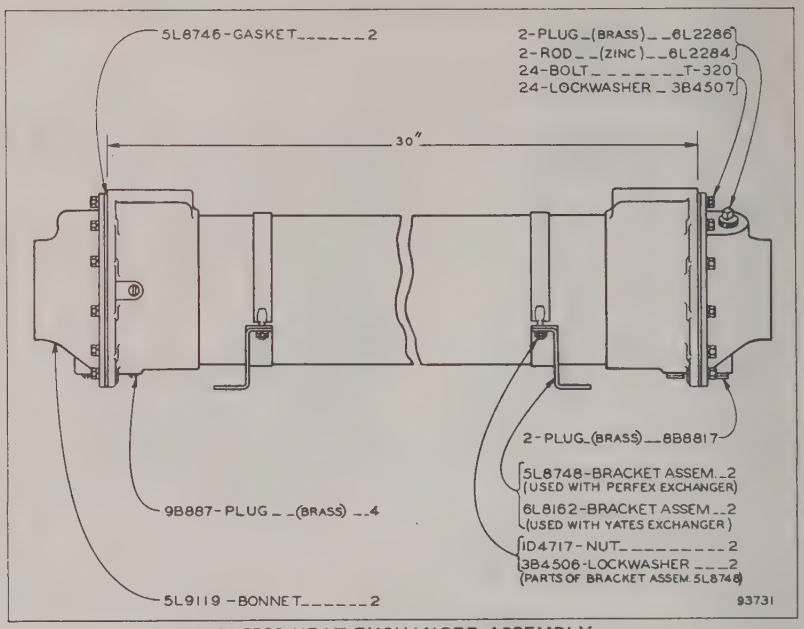
HEAT EXCHANGER CHART

# 6L8994 RAW WATER LINES GROUP
EFFECTIVE WITH SERIAL No. 66B1415



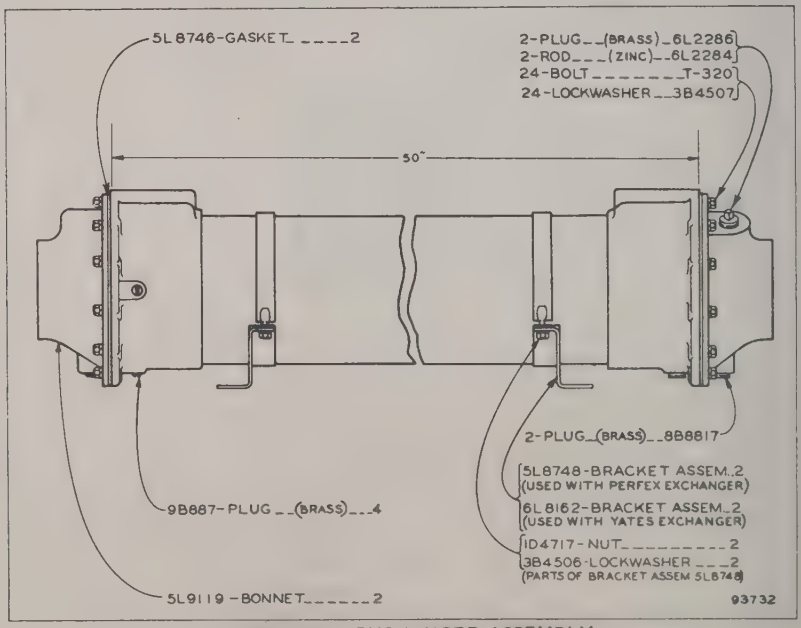

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L4718 | TUBE | 1 |
| 2 | 6L4724 | CLIP | 3 |
| 3 | 6L3930 | HOSE | 1 |
| 4 | 6L8762 | ELBOW | 1 |
| 5 | 6L8964 | HOSE | 2 |
| 6 | 6L9018 | ELBOW | 2 |
| 7 | 9M164 | CLAMP | 2 |
| 8 | 6L4757 | HOSE | 1 |
| 9 | 5B9169 | PLUG (Brass) | 2 |
| 10 | 2J1737 | CLAMP | 4 |
| 11 | 5L9917 | ADAPTER | 1 |
| 12 | S-1591 | BOLT | 11 |
| | 3B4506 | LOCKWASHER | 11 |
| 13 | 6L2288 | ROD (Zinc) | 2 |
| 14 | 6L4725 | CLAMP | 2 |

96265



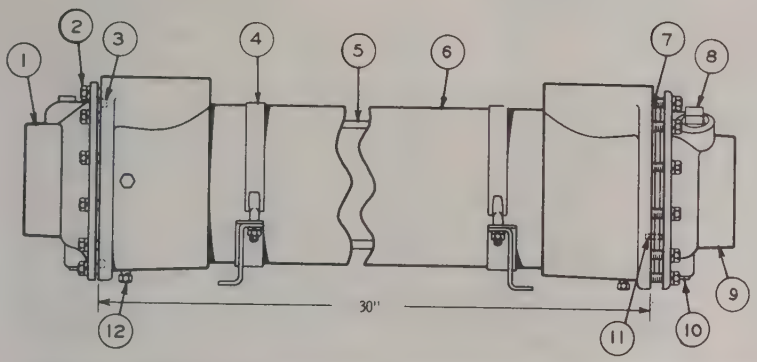

5L6502 HEAT EXCHANGER ASSEMBLY

Only separate parts serviced. When complete Assembly is required order 8L5340. Refer to Page 124 for usage




5L6503 HEAT EXCHANGER ASSEMBLY

Only separate parts serviced. When complete Assembly is required order 8L5342 shown on Page 125A. Refer to Page 124 for usage

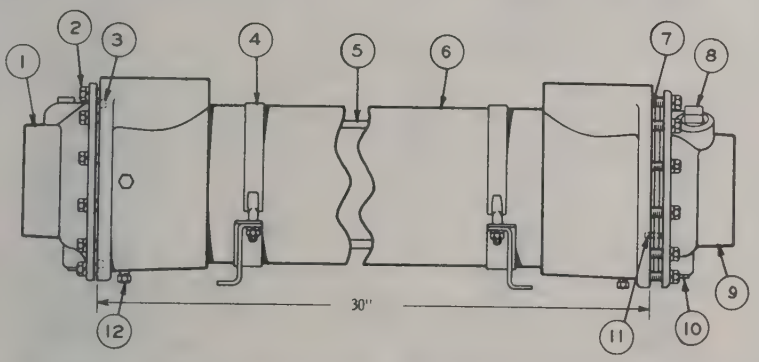



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L482 | BONNET | 1 |
| 2 | T768 | BOLT | 24 |
| | 3B4507 | LOCKWASHER | 24 |
| 3 | 7L486 | SEAL | 1 |
| 4 | 8L5053 | BRACKET ASSEM. | 2 |
| 5 | 8L4503 | CORE ASSEM. ------(30" long)----- | 1 |
| 6 | 8L5119 | SHELL ASSEM. | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 7 | 7L487 | GASKET | 2 |
| 8 | 6L2286 | PLUG----------(Brass)---------- | 2 |
| | 6L2284 | ROD----------(Zinc)---------- | 2 |
| 9 | 7L483 | BONNET | 1 |
| 10 | 8B8817 | PLUG----------(Brass)---------- | 2 |
| 11 | 1H1200 | PIN | 1 |
| 12 | 9B887 | PLUG----------(Brass)---------- | 4 |

123868

**7L488 HEAT EXCHANGER ASSEMBLY**
**Provides Copper Nickel Tubing. Only separate parts serviced When complete Assembly is required order 8L5340**

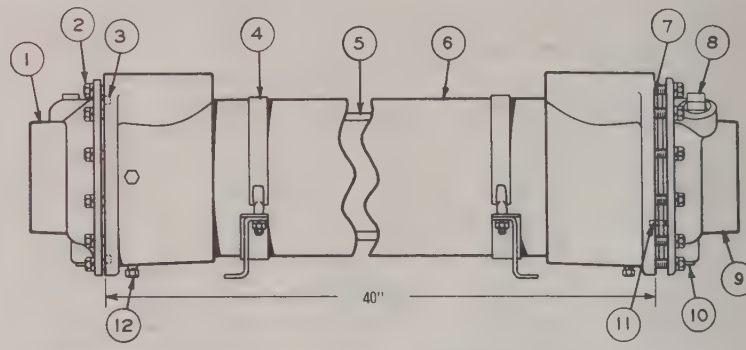



| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L482 | BONNET | 1 |
| 2 | T768 | BOLT | 24 |
| | 3B4507 | LOCKWASHER | 24 |
| 3 | 7L486 | SEAL | 1 |
| 4 | 8L5053 | BRACKET ASSEM. | 2 |
| 5 | 8L5341 | CORE ASSEM. ------(30" long)----- | 1 |
| 6 | 8L5119 | SHELL ASSEM. | 1 |

| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 7 | 7L487 | GASKET | 2 |
| 8 | 6L2286 | PLUG----------(Brass)---------- | 2 |
| | 6L2284 | ROD----------(Zinc)---------- | 2 |
| 9 | 7L483 | BONNET | 1 |
| 10 | 8B8817 | PLUG----------(Brass)---------- | 2 |
| 11 | 1H1200 | PIN | 1 |
| 12 | 9B887 | PLUG----------(Brass)---------- | 4 |

123871

**8L5340 HEAT EXCHANGER ASSEMBLY**
**Provides Copper Nickel Tubing**
**Usage same as 5L6502 Assembly shown on chart on Page 124**

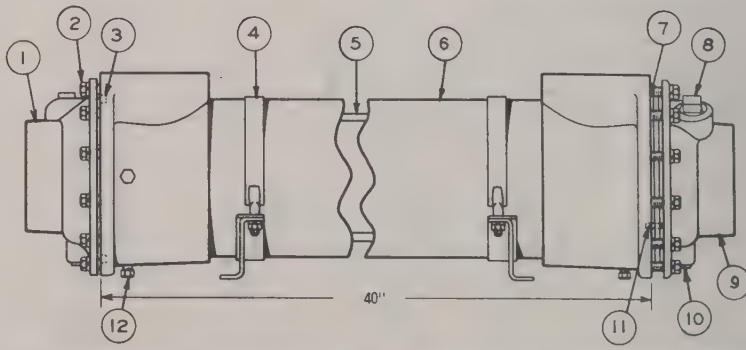



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L482 | BONNET | 1 |
| 2 | T768 | BOLT | 24 |
| | 3B4507 | LOCKWASHER | 24 |
| 3 | 7L486 | SEAL | 1 |
| 4 | 8L5053 | BRACKET ASSEM. | 2 |
| 5 | 8L4505 | CORE ASSEM. | 1 |
| 6 | 8L5120 | SHELL ASSEM. | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 7 | 7L487 | GASKET | 2 |
| 8 | 6L2286 | PLUG-(Brass) | 2 |
| | 6L2284 | ROD-(Zinc) | 2 |
| 9 | 7L483 | BONNET | 1 |
| 10 | 8B8817 | PLUG-(Brass) | 2 |
| 11 | 1H1200 | PIN | 1 |
| 12 | 9B887 | PLUG-(Brass) | 4 |

123867

**7L490 HEAT EXCHANGER ASSEMBLY**
**Provides Copper Nickel Tubing. Only separate parts serviced When complete Assembly is required order 8L5342**

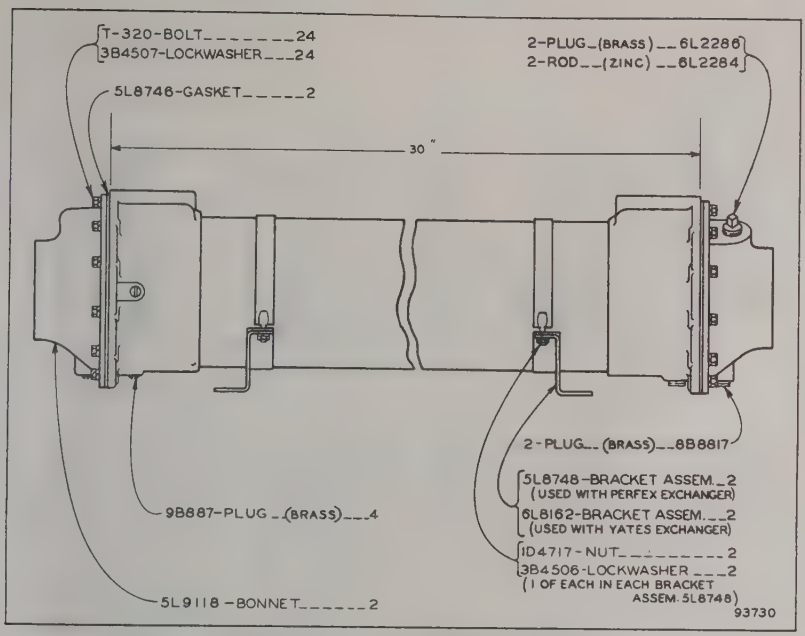



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L482 | BONNET | 1 |
| 2 | T768 | BOLT | 24 |
| | 3B4507 | LOCKWASHER | 24 |
| 3 | 7L486 | SEAL | 1 |
| 4 | 8L5053 | BRACKET ASSEM. | 2 |
| 5 | 8L5343 | CORE ASSEM. -----(40" long)----- | 1 |
| 6 | 8L5120 | SHELL ASSEM. | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 7 | 7L487 | GASKET | 2 |
| 8 | 6L2286 | PLUG-(Brass) | 2 |
| | 6L2284 | ROD-(Zinc) | 2 |
| 9 | 7L483 | BONNET | 1 |
| 10 | 8B8817 | PLUG-(Brass) | 2 |
| 11 | 1H1200 | PIN | 1 |
| 12 | 9B887 | PLUG-(Brass) | 4 |

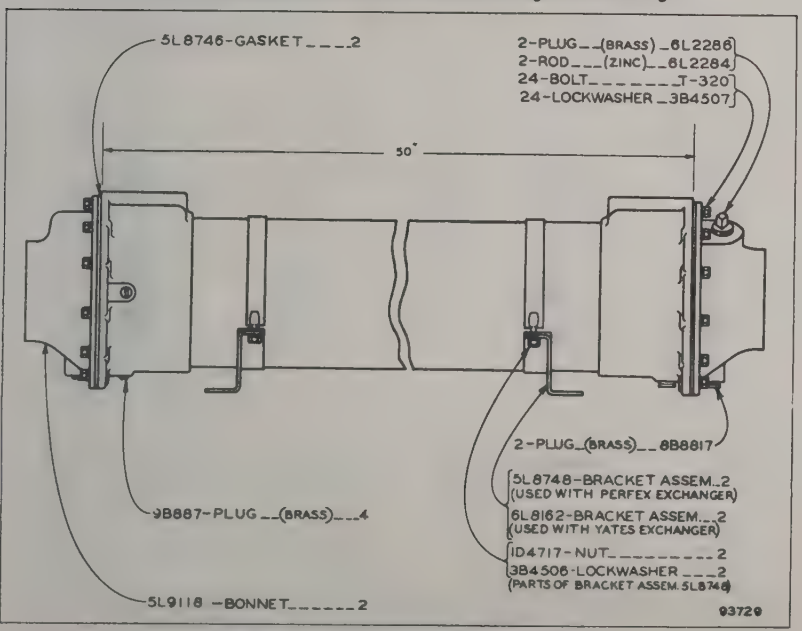
123872

**8L5342 HEAT EXCHANGER ASSEMBLY**
**Provides Copper Nickel Tubing. Usage same as 5L6503 Assembly shown on chart on Page 124**



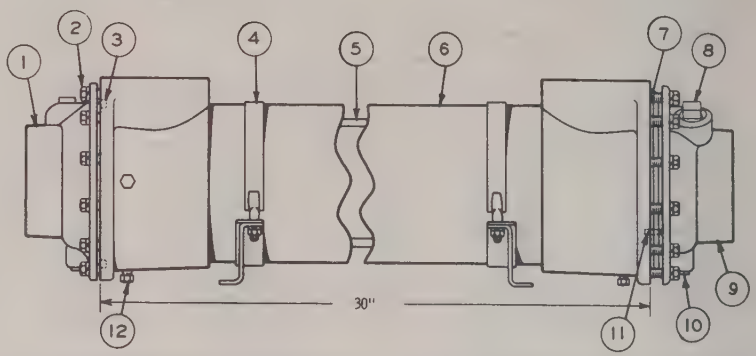

**5L6504 HEAT EXCHANGER ASSEMBLY**

Only separate parts serviced. When complete Assembly is required order 7L489 shown on Page 126. Refer to Page 124 for usage




**5L6505 HEAT EXCHANGER ASSEMBLY**

Only separate parts serviced. When complete Assembly is required order 7L491 shown on Page 126. Refer to Page 124 for usage



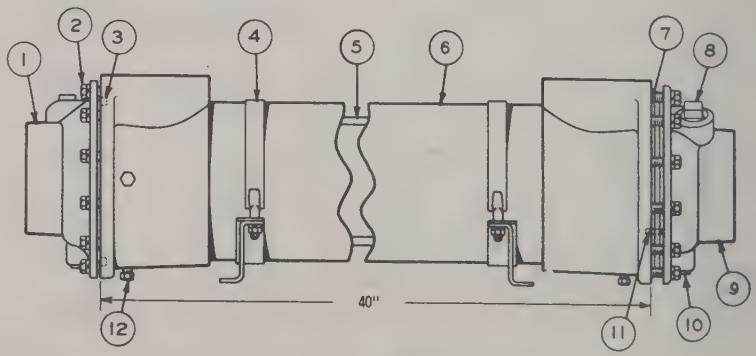

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L484 | BONNET | 1 |
| 2 | T768 | BOLT | 24 |
| | 3B4507 | LOCKWASHER | 24 |
| 3 | 7L486 | SEAL | 1 |
| 4 | 8L5053 | BRACKET ASSEM. | 2 |
| 5 | 8L4504 | CORE ASSEM. -----(30" long)----- | 1 |
| 6 | 8L5119 | SHELL ASSEM. | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 7 | 7L487 | GASKET | 2 |
| 8 | 6L2286 | PLUG----------(Brass)---------- | 2 |
| | 6L2284 | ROD----------(Zinc)---------- | 2 |
| 9 | 7L485 | BONNET | 1 |
| 10 | 8B8817 | PLUG----------(Brass)---------- | 2 |
| 11 | 1H1200 | PIN | 1 |
| 12 | 9B887 | PLUG----------(Brass)---------- | 4 |

123869

7L489 HEAT EXCHANGER ASSEMBLY

Usage same as 5L6504 Assembly shown on chart on Page 124




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L484 | BONNET | 1 |
| 2 | T768 | BOLT | 24 |
| | 3B4507 | LOCKWASHER | 24 |
| 3 | 7L486 | SEAL | 1 |
| 4 | 8L5053 | BRACKET ASSEM. | 2 |
| 5 | 8L4506 | CORE ASSEM. -------(40" long)---- | 1 |
| 6 | 8L5120 | SHELL ASSEM. | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 7 | 7L487 | GASKET | 2 |
| 8 | 6L2286 | PLUG----------(Brass)---------- | 2 |
| | 6L2284 | ROD----------(Zinc)---------- | 2 |
| 9 | 7L485 | BONNET | 1 |
| 10 | 8B8817 | PLUG----------(Brass)---------- | 2 |
| 11 | 1H1200 | PIN | 1 |
| 12 | 9B887 | PLUG----------(Brass)---------- | 4 |

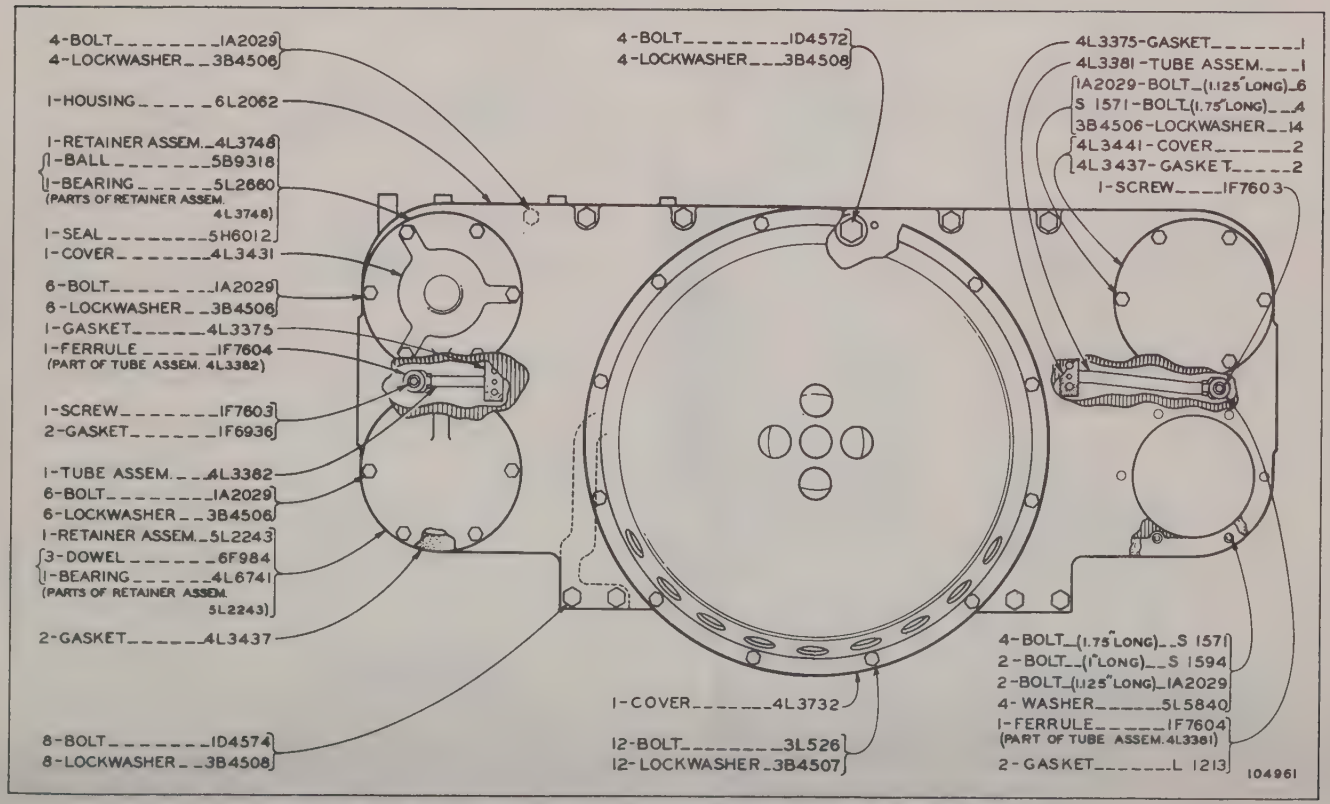
123870

7L491 HEAT EXCHANGER ASSEMBLY

Usage same as 5L6505 Assembly shown on chart on Page 124

| | | Consists of: | Page |
|---|---|---|---|
| 1 | 4L1138 | Front Accessory Drive Group ..... | 126B |
| 1 | 2N8301 | Auxiliary Pump and Lines Group ..... | 126D |
| 6 | 3B4506 | Lockwasher--3/8" | |
| 6 | S1619 | Bolt | |

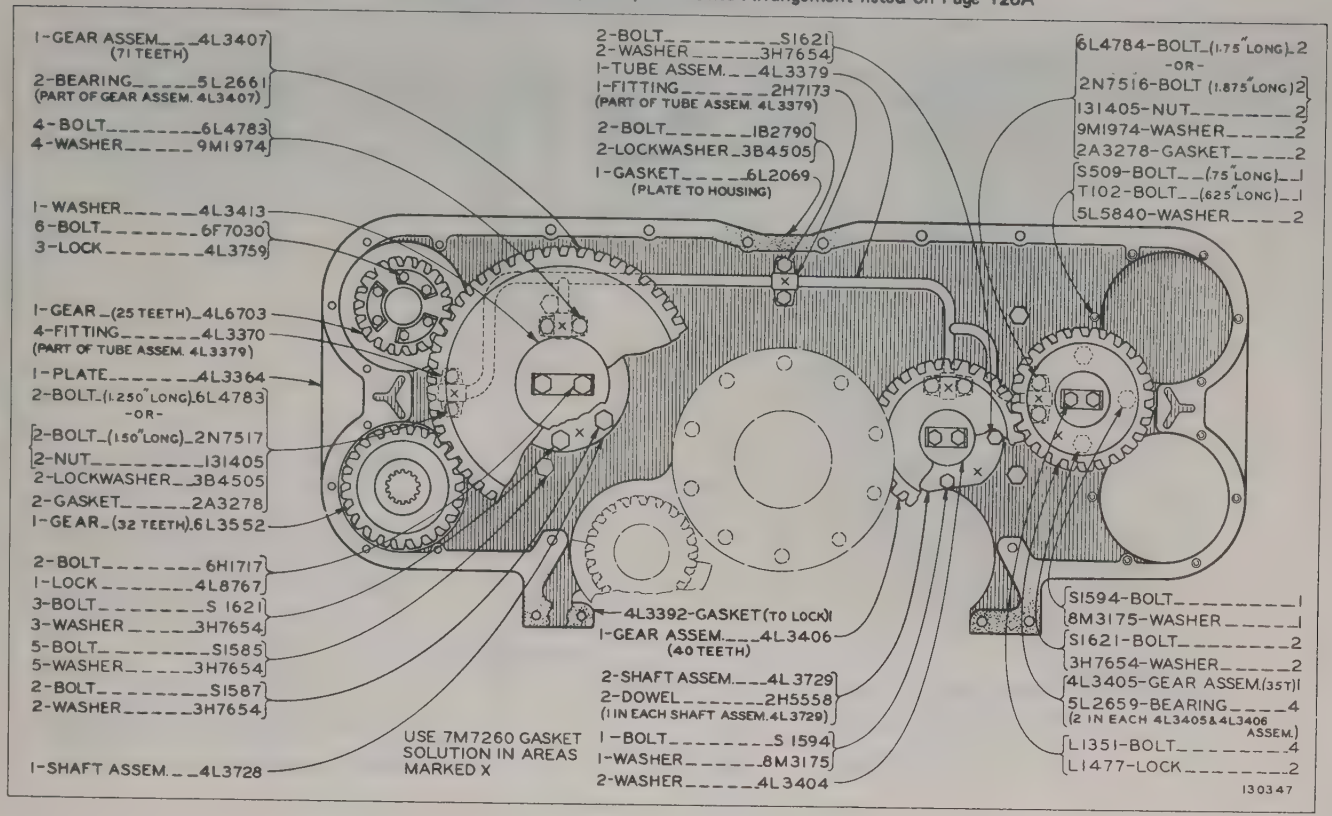
2N9504 AUXILIARY PUMP AND LINES ARRANGEMENT—Fresh Water
S.A.E. STANDARD ENGINE ROTATION
Serial No. 66B1415. Only separate parts serviced



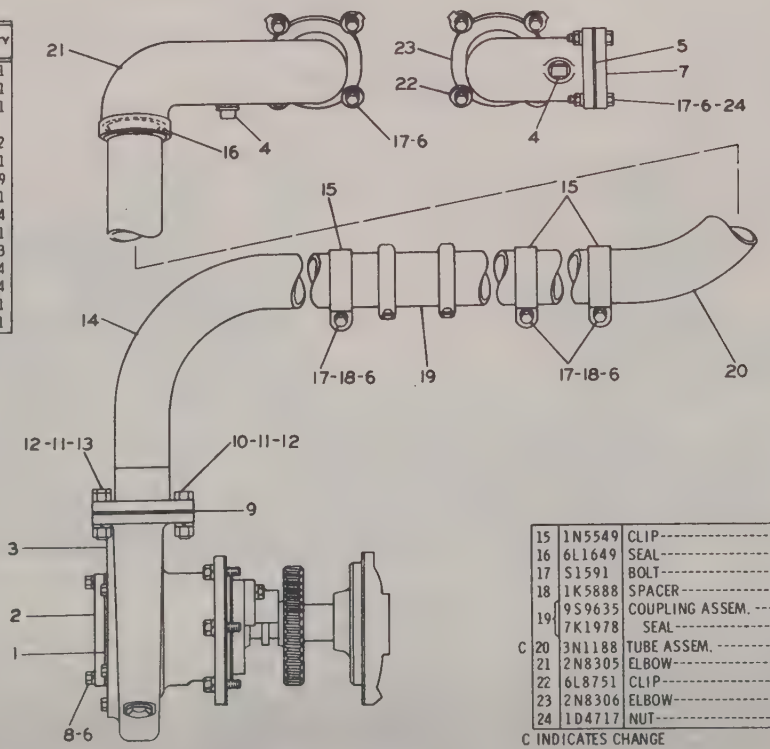

4L1138 FRONT ACCESSORY DRIVE GROUP—S.A.E. Standard Engine Rotation—Part 1
Also part of 2N9504 Auxiliary Pump and Lines Arrangement listed on Page 126A

## 4L1138 FRONT ACCESSORY DRIVE GROUP—S.A.E. Standard Engine Rotation—Part 2

Also part of 2N9504 Auxiliary Pump and Lines Arrangement listed on Page 126A



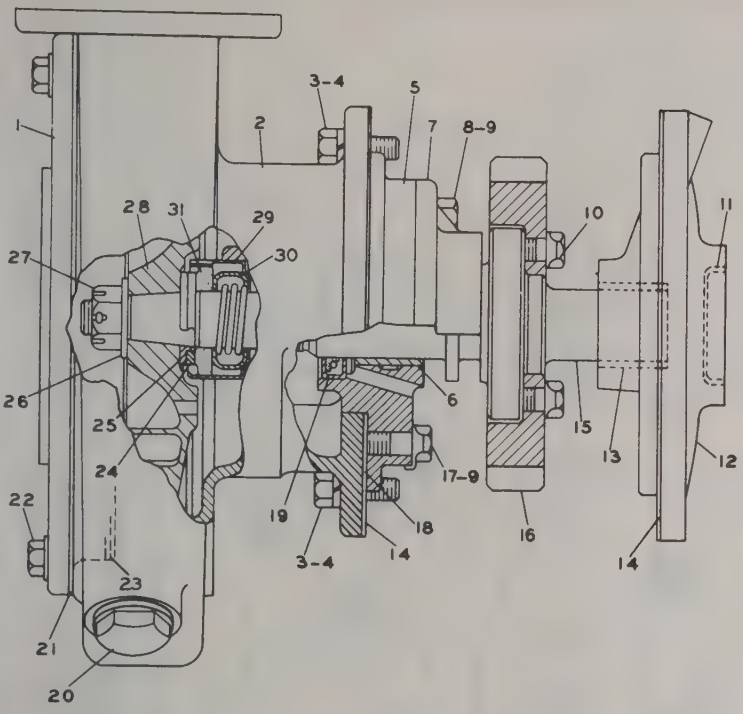
| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 4L5832 | GASKET | 1 |
| 2 | 2N8308 | FLANGE | 1 |
| 3 | 2N955 | PUMP GROUP (Separate Illustration) | 1 |
| 4 | 2B7409 | PLUG | 2 |
| 5 | 3S1889 | GASKET | 1 |
| 6 | 3B4506 | LOCKWASHER | 19 |
| 7 | 2N8329 | FLANGE | 1 |
| 8 | S1588 | BOLT | 4 |
| 9 | 4L8121 | GASKET | 1 |
| 10 | S1587 | BOLT | 3 |
| 11 | 1D4719 | NUT | 4 |
| 12 | 3B4508 | LOCKWASHER | 4 |
| 13 | S1595 | BOLT | 1 |
| 14 | 2N8371 | TUBE ASSEM. | 1 |




| | | | | |
|---|---|---|---|---|
| | 15 | 1N5549 | CLIP | 3 |
| | 16 | 6L1649 | SEAL | 1 |
| | 17 | S1591 | BOLT | 15 |
| | 18 | 1K5888 | SPACER | 3 |
| | 19 | 9S9635 | COUPLING ASSEM. | 1 |
| | | 7K1978 | SEAL | 2 |
| C | 20 | 3N1188 | TUBE ASSEM. | 1 |
| | 21 | 2N8305 | ELBOW | 1 |
| | 22 | 6L8751 | CLIP | 8 |
| | 23 | 2N8306 | ELBOW | 1 |
| | 24 | 1D4717 | NUT | 4 |

C INDICATES CHANGE 141534

2N8301 AUXILIARY PUMP AND LINES GROUP—Fresh Water
Serial No. 66B1415—Up
Part of 2N9504 Auxiliary Pump and Lines Arrangement listed on Page 126A



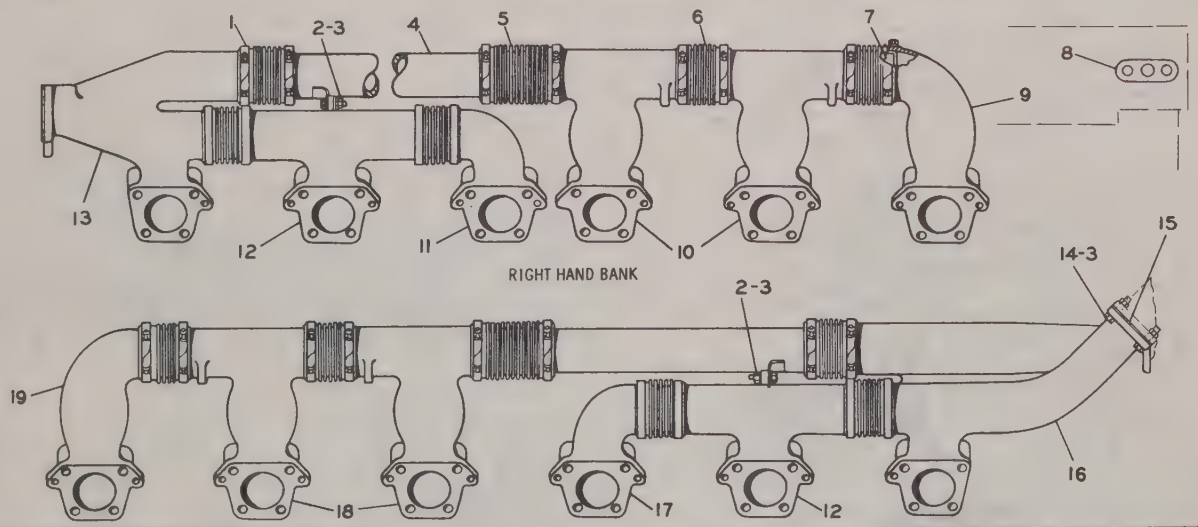

5N3377-REBUILD KIT---------1 C
(Consists of all parts marked ▲)

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 4L6231 | COVER | 1 |
| 2 | 1N5570 | HOUSING ASSEM. | 1 |
| 3 | 1A2029 | BOLT-----28.58 mm(1.25 in.) long | 6 |
| | | or | |
| | S1588 | BOLT-----31.75 mm(1.25 in.) long | 6 |
| 4 | 3B4506 | LOCKWASHER | |
| 5 | 4L3761 | RETAINER ASSEM. | 1 |
| ▲ 6 | 5L2660 | BEARING | 1 |
| ▲ 7 | 4L3756 | BEARING | 1 |
| 8 | S1571 | BOLT | 4 |
| 9 | 7F7510 | LOCK | 6 |
| 10 | 6F7030 | BOLT | 6 |
| | 4L3759 | LOCK | 3 |
| ▲ 11 | 3F5022 | PLUG | 1 |
| 12 | 4L3748 | RETAINER ASSEM. | 1 |
| ▲ 13 | 5L2660 | BEARING | 1 |
| 14 | 4L3437 | GASKET | 2 |
| C▲ 15 | 3N7717 | SHAFT | 1 |
| 16 | 5L4074 | GEAR----------(31 Teeth)---------- | 1 |
| 17 | 3B1915 | BOLT | 2 |
| 18 | 4L9965 | GASKET------(Retainer)---------- | 1 |
| 19 | 2N2560 | SEAL | 1 |
| 20 | 3F1357 | PLUG | 1 |
| | 5B3265 | GASKET | 1 |
| 21 | 4L6706 | GASKET | 10 |
| 22 | 3H5841 | BOLT | 8 |
| | 5L5840 | WASHER | 8 |
| 23 | 1H8278 | SEAL | 1 |
| 24 | 2S3966 | RING | 1 |
| 25 | 3S3535 | SEAL | 1 |
| ▲ 26 | 6F2691 | WASHER | 1 |
| ▲ 27 | 3H2018 | NUT | 1 |
| ▲ | 3F2771 | COTTER PIN | 1 |
| ▲ 28 | 7L104 | IMPELLER | 1 |
| 29 | 9S5169 | SEAL ASSEM. | 1 |
| 30 | 6H3491 | BELLOWS ASSEM. | 1 |
| 31 | 9S5168 | WASHER | 1 |

160510

C INDICATES CHANGE

**2N955 FRESH WATER PUMP GROUP**
**Serial No. 66B1415—Up**
**Part of 2N8301 Auxiliary Pump and Lines Group**




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L8886 | CLAMP ASSEM. | 24 |
| | 7L4236 | BOLT | 24 |
| | 7L8170 | NUT | 24 |
| 2 | 3H6622 | BOLT | 2 |
| | 3B4506 | LOCKWASHER | 2 |
| | 4B4278 | WASHER | 4 |
| 3 | 8M2296 | NUT | 10 |
| 4 | 7L587 | TUBE ASSEM. | 2 |
| 5 | 7L8240 | BELLOWS | 2 |

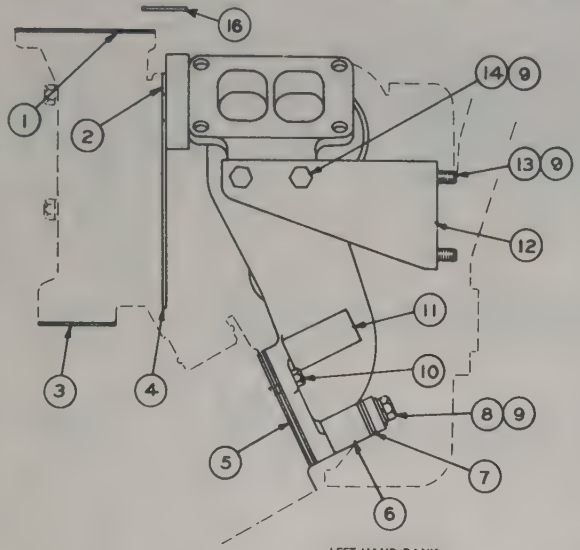
| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 6 | 7L8055 | BELLOWS | 10 |
| 7 | 6L8881 | TUBE | 8 |
| 8 | 5L9842 | GASKET | 4 |
| 9 | 2N237 | MANIFOLD | 1 |
| 10 | 2N239 | MANIFOLD | 2 |
| 11 | 2N241 | MANIFOLD | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 12 | 2N243 | MANIFOLD | 2 |
| 13 | 2N235 | MANIFOLD | 1 |
| 14 | 7L3195 | BOLT | 8 |
| 15 | 1S4295 | GASKET | 2 |
| 16 | 2N236 | MANIFOLD | 1 |
| 17 | 2N242 | MANIFOLD | 1 |
| 18 | 2N240 | MANIFOLD | 2 |
| 19 | 2N238 | MANIFOLD | 1 |

125194

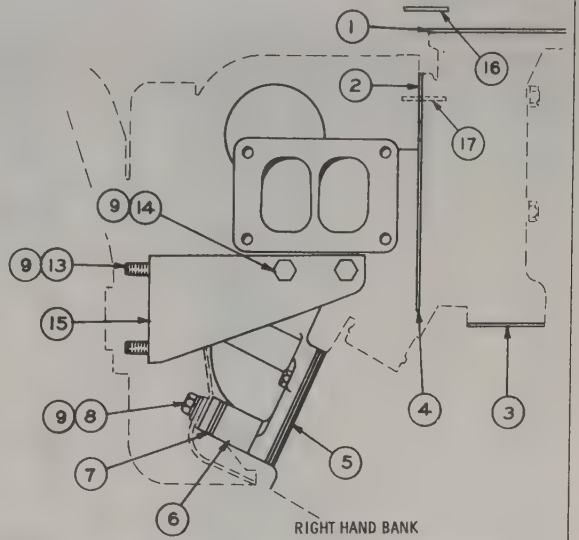
**2N266 EXHAUST MANIFOLD GROUP—Side View—Field Installation**
**Serial No. 75B1—Up**

## 2N266 EXHAUST MANIFOLD GROUP—End View—Field Installation
Serial No. 75B1—Up




LEFT HAND BANK

REAR VIEW OF ENGINE



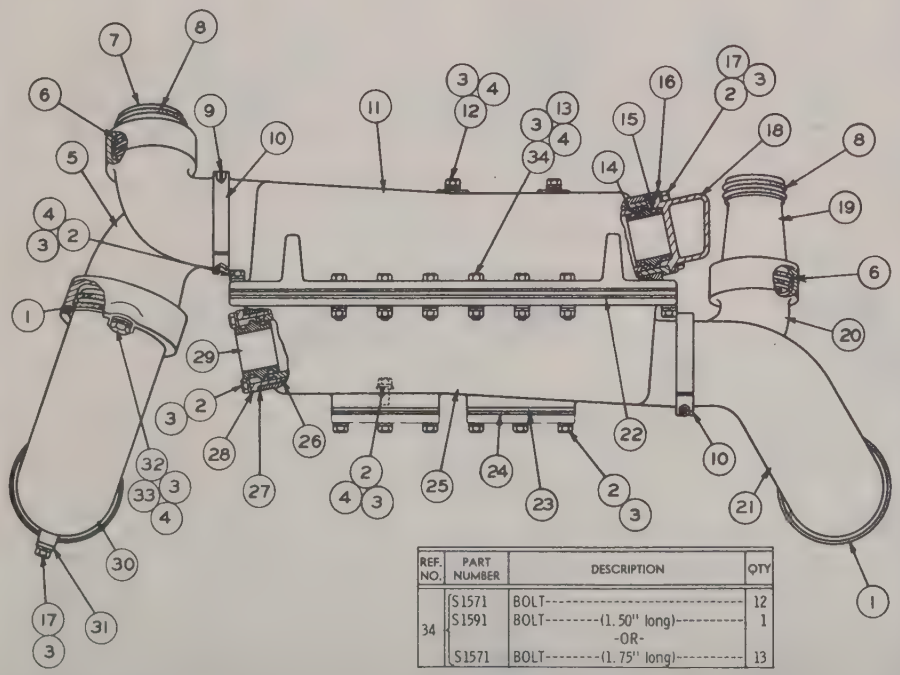

RIGHT HAND BANK

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 4L8128 | GASKET | 2 |
| 2 | 4H5952 | GASKET | 12 |
| 3 | 6L5366 | GASKET | 2 |
| 4 | 4L7907 | GASKET | 2 |
| 5 | 7L2149 | GASKET | 24 |
| 6 | 2N264 | SPACER | 24 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 7 | 6L2389 | SUPPORT ASSEM. | 12 |
| 8 | 3H5841 | BOLT | 12 |
| | 6L8031 | NUT | 12 |
| 9 | 3B4506 | LOCKWASHER | 20 |
| | 4B4278 | WASHER | 20 |
| 10 | 3H6591 | BOLT | 21 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 11 | 2N263 | SPACER | 24 |
| 12 | 7L5330 | BRACKET | 1 |
| 13 | T102 | BOLT | 4 |
| 14 | S1588 | BOLT | 4 |
| | 1D4717 | NUT | 4 |
| 15 | 7L5327 | BRACKET | 1 |
| 16 | 1S6595 | GASKET (Turbocharger) | 2 |
| 17 | 1S4810 | GASKET (Turbocharger) | 2 |

125195



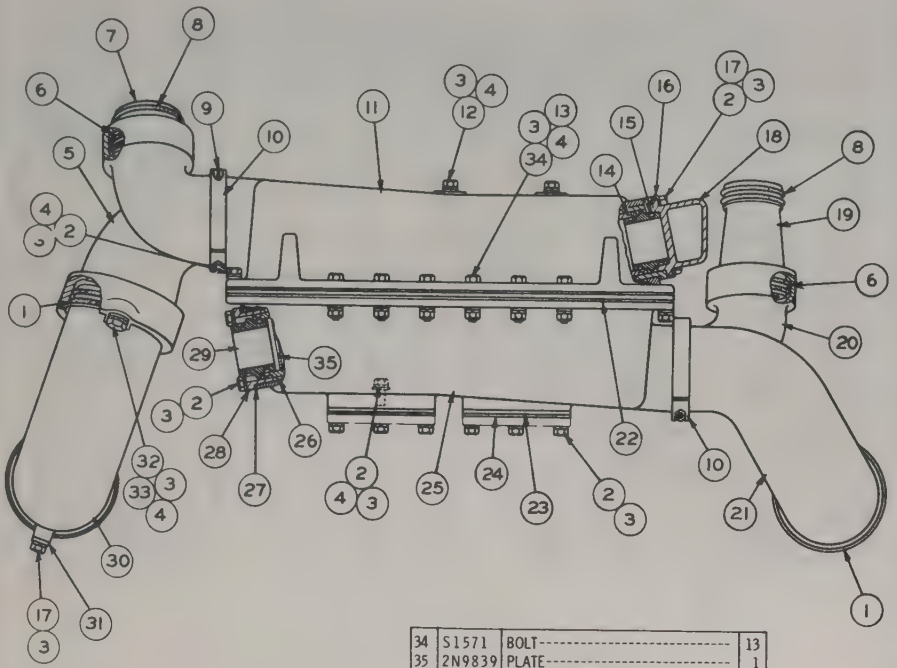
| REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 34 | S1571 | BOLT | 12 |
| | S1591 | BOLT--------(1.50" long)---------- | 1 |
| | | -OR- | |
| | S1571 | BOLT--------(1.75" long)---------- | 13 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 5H6733 | SEAL | 6 |
| 2 | S 1591 | BOLT---------(1.50" Long)--------- | 37 |
| 3 | 3B4506 | LOCKWASHER | 60 |
| 4 | 4B4278 | WASHER | 32 |
| 5 | 6L6482 | ELBOW | 1 |
| 6 | 6L8166 | SEAL | 4 |
| 7 | 6L6484 | PIPE | 1 |
| 8 | 6L8167 | SEAL | 4 |
| 9 | 6L6487 | GASKET | 4 |
| 10 | 5L7631 | CLAMP | 4 |
| 11 | 6L6293 | HOUSING | 1 |
| 12 | 4F411 | BOLT | 3 |
| 13 | 1D4717 | NUT | 12 |
| 14 | 9F4446 | SEAL | 4 |
| 15 | 2H2665 | SEAL | 8 |
| 16 | 6L8751 | CLIP | 4 |
| 17 | S 1594 | BOLT---------(1.00" Long)--------- | 6 |
| 18 | 6L8764 | PIPE | 1 |
| 19 | 6L6483 | PIPE | 1 |
| 20 | 6L6481 | ELBOW | 2 |
| 21 | 6L6485 | ELBOW | 1 |
| 22 | 2N5693 | GASKET | 2 |
| 23 | 6L6494 | PLATE | 2 |
| 24 | 4L7904 | GASKET | 2 |
| 25 | 6L6294 | HOUSING | 1 |
| 26 | 1N5566 | CORE ASSEM. | 1 |
| | 1N5565 | CORE ASSEM. | 1 |
| 27 | 6L6489 | GASKET | 4 |
| 28 | 6L6488 | FLANGE | 4 |
| 29 | 6L8761 | SLEEVE | 4 |
| 30 | 6L6486 | ELBOW | 1 |
| 31 | 6L6493 | LOCK | 1 |
| 32 | 1A2029 | BOLT | 1 |
| 33 | 1S6908 | PLATE | 1 |

111247

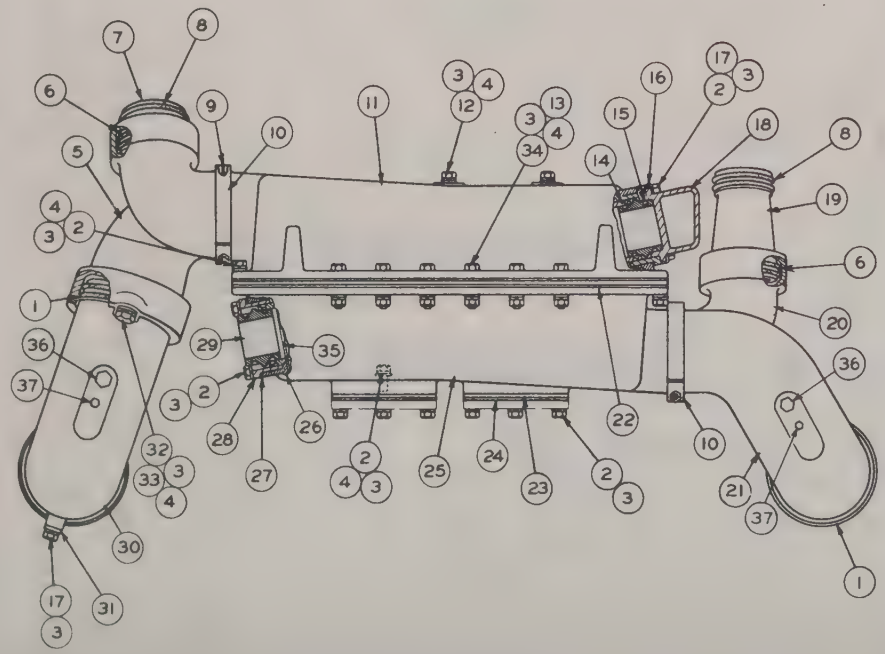
**6L6394 AFTERCOOLER GROUP—Sea Water—Type 1**
**Serial No. 66B1415—Up**

## 6L6394 AFTERCOOLER GROUP—Sea Water—Type 2
### Serial No. 66B1415—Up



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5H6733 | SEAL | 6 |
| 2 | S 1591 | BOLT—(1.50" Long) | 37 |
| 3 | 3B4506 | LOCKWASHER | 60 |
| 4 | 4B4278 | WASHER | 32 |
| 5 | 6L6482 | ELBOW | 1 |
| 6 | 6L8166 | SEAL | 4 |
| 7 | 6L6484 | PIPE | 1 |
| 8 | 6L8167 | SEAL | 4 |
| 9 | 6L6487 | GASKET | 4 |
| 10 | 5L7631 | CLAMP | 4 |
| 11 | 6L6293 | HOUSING | 1 |
| 12 | 4F411 | BOLT | 3 |
| 13 | 1D4717 | NUT | 12 |
| 14 | 9F4446 | SEAL | 4 |
| 15 | 2H2665 | SEAL | 8 |
| 16 | 6L8751 | CLIP | 4 |
| 17 | S 1594 | BOLT—(1.00" Long) | 6 |
| 18 | 6L8764 | PIPE | 1 |
| 19 | 6L6483 | PIPE | 1 |
| 20 | 6L6481 | ELBOW | 2 |
| 21 | 6L6485 | ELBOW | 1 |
| 22 | 2N5693 | GASKET | 2 |
| 23 | 6L6494 | PLATE | 2 |
| 24 | 4L7904 | GASKET | 2 |
| 25 | 6L6294 | HOUSING | 1 |
| 26 | 1N5566 | CORE ASSEM. | 1 |
| | 2N9840 | CORE ASSEM. | 1 |
| 27 | 6L6489 | GASKET | 4 |
| 28 | 6L6488 | FLANGE | 4 |
| 29 | 6L8761 | SLEEVE | 4 |
| 30 | 6L6486 | ELBOW | 1 |
| 31 | 6L6493 | LOCK | 1 |
| 32 | 1A2029 | BOLT | 1 |
| 33 | 1S6908 | PLATE | 1 |
| 34 | S1571 | BOLT | 13 |
| 35 | 2N9839 | PLATE | 1 |

135153



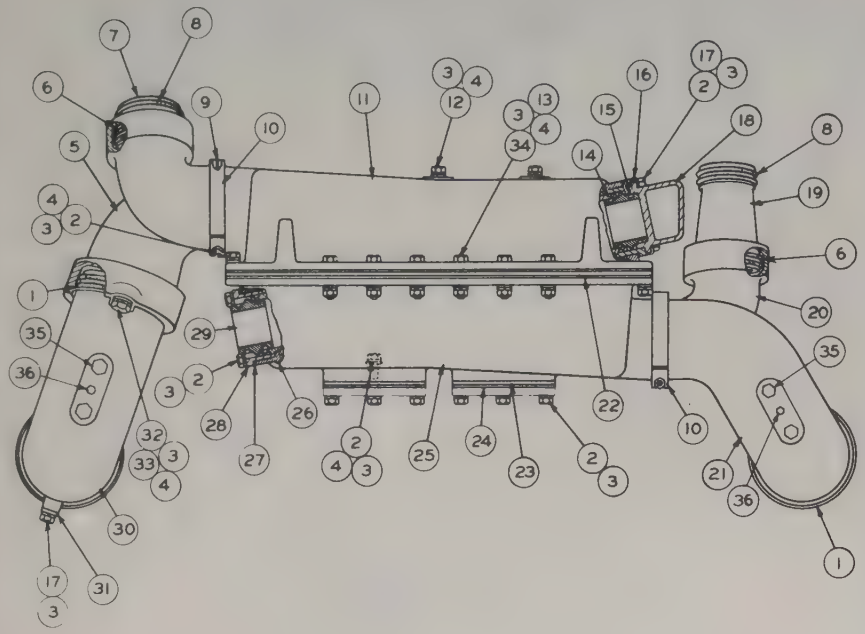
| | REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| | 1 | 5H6733 | SEAL | 6 |
| | 2 | S1591 | BOLT----------(1.50" long)------ | 37 |
| | 3 | 3B4506 | LOCKWASHER | 60 |
| | 4 | 4B4278 | WASHER | 32 |
| | 5 | 6L6482 | ELBOW | 1 |
| | 6 | 6L8166 | SEAL | 4 |
| | 7 | 6L6484 | PIPE | 1 |
| | 8 | 6L8167 | SEAL | 4 |
| | 9 | 6L6487 | GASKET | 4 |
| | 10 | 5L7631 | CLAMP | 4 |
| | 11 | 6L6293 | HOUSING | 1 |
| | 12 | 4F411 | BOLT | 3 |
| | 13 | 1D4717 | NUT | 12 |
| | 14 | 9F4446 | SEAL | 4 |
| | 15 | 2H2665 | SEAL | 8 |
| | 16 | 6L8751 | CLIP | 4 |
| | 17 | S1594 | BOLT----------(1.00" long)------ | 6 |
| | 18 | 6L8764 | PIPE | 1 |
| | 19 | 6L6483 | PIPE | 1 |
| | 20 | 6L6481 | ELBOW | 2 |
| C | 21 | 3N3432 | ELBOW | 1 |
| | 22 | 2N5693 | GASKET | 2 |
| | 23 | 6L6494 | PLATE | 2 |
| | 24 | 4L7904 | GASKET | 2 |
| | 25 | 6L6294 | HOUSING | 1 |
| C | 26 | 3N4363 | CORE ASSEM. | 1 |
| C | | 3N4364 | CORE ASSEM. | 1 |
| | 27 | 6L6489 | GASKET | 4 |
| | 28 | 6L6488 | FLANGE | 4 |
| | 29 | 6L8761 | SLEEVE | 4 |
| C | 30 | 3N3433 | ELBOW | 1 |
| | 31 | 6L6493 | LOCK | 1 |
| | 32 | 1A2029 | BOLT | 1 |
| | 33 | 1S6908 | PLATE | 1 |
| | 34 | S1571 | BOLT | 13 |
| | 35 | 2N9839 | PLATE | 1 |
| C | 36 | 3J5389 | PLUG | 2 |
| C | 37 | 5M6214 | PLUG | 2 |

C INDICATES CHANGE

114763

**6L6394 AFTERCOOLER GROUP—Sea Water—Type 3**
**Serial No. 66B1415—Up**

# 6L6394 AFTERCOOLER GROUP—Sea Water—Type 4
Serial No. 66B1415—Up

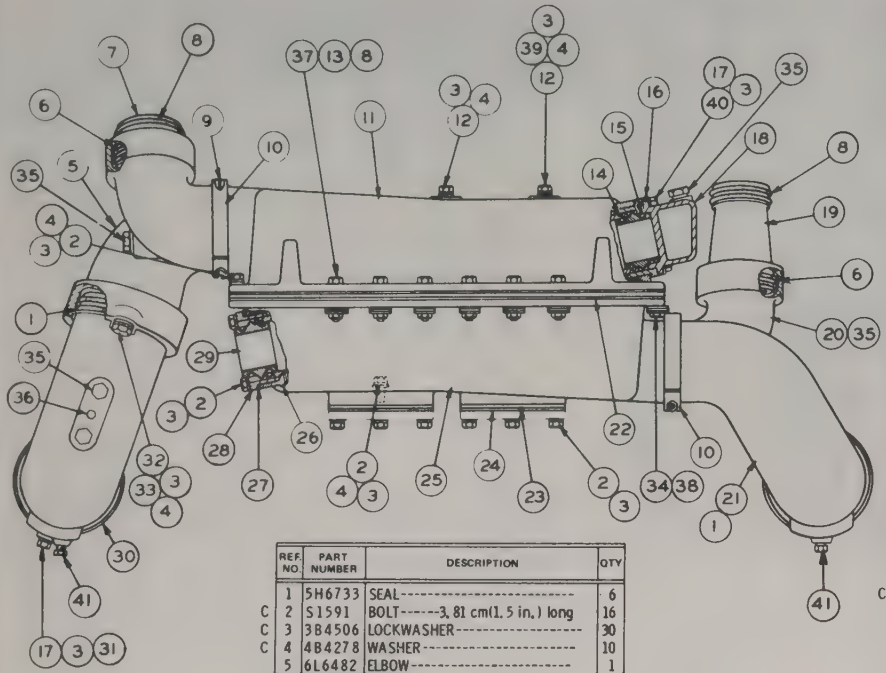


| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5H6733 | SEAL | 6 |
| 2 | S1591 | BOLT (1.50" long) | 37 |
| 3 | 3B4506 | LOCKWASHER | 60 |
| 4 | 4B4278 | WASHER | 32 |
| 5 | 6L6482 | ELBOW | 1 |
| 6 | 6L8166 | SEAL | 4 |
| 7 | 6L6484 | PIPE | 1 |
| 8 | 6L8167 | SEAL | 4 |
| 9 | 6L6487 | GASKET | 4 |
| 10 | 5L7631 | CLAMP | 4 |
| 11 | 6L6293 | HOUSING | 1 |
| 12 | 4F411 | BOLT | 3 |
| 13 | 1D4717 | NUT | 12 |
| 14 | 9F4446 | SEAL | 4 |
| 15 | 2H2665 | SEAL | 8 |
| 16 | 6L8751 | CLIP | 4 |
| 17 | S1594 | BOLT (1.00" long) | 6 |
| 18 | 6L8764 | PIPE | 1 |
| 19 | 6L6483 | PIPE | 1 |
| 20 | 6L6481 | ELBOW | 2 |
| 21 | 3N3432 | ELBOW | 1 |
| 22 | 2N5693 | GASKET | 2 |
| 23 | 6L6494 | PLATE | 2 |
| 24 | 4L7904 | GASKET | 2 |
| 25 | 6L6294 | HOUSING | 1 |
| 26 | 3N4363 | CORE ASSEM. | 1 |
| | 3N4364 | CORE ASSEM. | 1 |
| 27 | 6L6489 | GASKET | 4 |
| 28 | 6L6488 | FLANGE | 4 |
| 29 | 6L8761 | SLEEVE | 4 |
| 30 | 3N3433 | ELBOW | 1 |
| 31 | 6L6493 | LOCK | 1 |
| 32 | 1A2029 | BOLT | 1 |
| 33 | 1S6908 | PLATE | 1 |
| 34 | S1571 | BOLT | 13 |
| 35 | 3J5389 | PLUG | 4 |
| C 36 | 5M6214 | PLUG | 2 |

C INDICATES CHANGE

141996

## 6L6394 AFTERCOOLER GROUP—Sea Water—Type 5
Serial No. 68B1415—Up



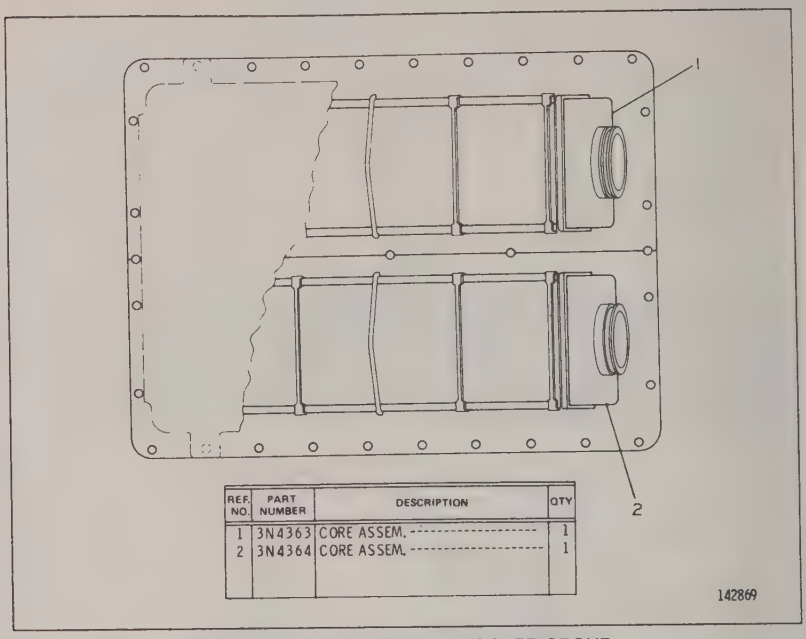
| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5H6733 | SEAL | 6 |
| C 2 | S1591 | BOLT---3.81 cm(1.5 in.) long | 16 |
| C 3 | 3B4506 | LOCKWASHER | 30 |
| C 4 | 4B4278 | WASHER | 10 |
| 5 | 6L6482 | ELBOW | 1 |

▲ USE AS REQUIRED

| | | | | |
|---|---|---|---|---|
| C | 6 | 5H7704 | SEAL | 4 |
| | 7 | 6L6484 | PIPE | 1 |
| C | 8 | 4L8337 | SEAL | 4 |
| | 9 | 6L6487 | GASKET | 4 |
| | 10 | 5L7631 | CLAMP | 4 |
| | 11 | 6L6293 | HOUSING | 1 |
| ▲ | 12 | 4F411 | BOLT---16.51 cm(6.5 in.) long | 3 |
| | 13 | 1D4717 | NUT | 12 |
| | 14 | 9F4446 | SEAL | 4 |
| | 15 | 2H2665 | SEAL | 8 |
| | 16 | 6L8751 | CLIP | 4 |
| | 17 | S1594 | BOLT---2.54 cm(1 in.) long | 8 |
| | 18 | 6L8764 | PIPE | 1 |
| | 19 | 6L6483 | PIPE | 1 |
| | 20 | 6L6481 | ELBOW | 2 |
| C | 21 | 5N2691 | ELBOW | 1 |
| | 22 | 2N5693 | GASKET | 2 |
| | 23 | 6L6494 | PLATE | 2 |
| | 24 | 4L7904 | GASKET | 2 |
| | 25 | 6L6294 | HOUSING | 1 |
| | 26 | 3N4363 | CORE ASSEM. | 1 |
| | | 3N4364 | CORE ASSEM. | 1 |
| | 27 | 6L6489 | GASKET | 4 |
| | 28 | 6L6488 | FLANGE | 4 |
| | 29 | 6L8761 | SLEEVE | 4 |
| C | 30 | 5N2692 | ELBOW | 1 |
| | 31 | 6L6493 | LOCK | 1 |
| | 32 | 1A2029 | BOLT | 1 |
| | 33 | 1S6908 | PLATE | 1 |
| C | 34 | S1571 | BOLT | 10 |
| C | 35 | 3J5389 | PLUG | 7 |
| | 36 | 5M6214 | PLUG | 2 |
| C | 37 | L2070 | BOLT | 12 |
| C | 38 | 2F2953 | WASHER---(plain) | 44 |
| C | | 5N2677 | WASHER---(spring) | 22 |
| C▲ | 39 | 9F8999 | BOLT---17.78 cm(7 in.) long | 2 |
| | 40 | S1591 | BOLT---3.81 cm(1.5 in.) long | 4 |
| | | | -OR- | |
| C | | 2D2285 | BOLT---4.4 cm(1.75 in.) long | 4 |
| C | 41 | 5M6213 | PLUG | 2 |

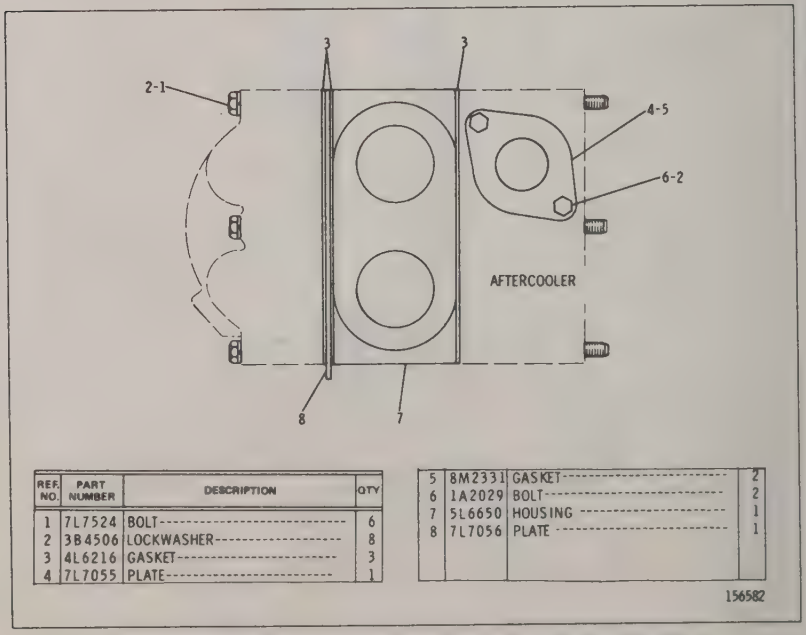
C INDICATES CHANGE

161142



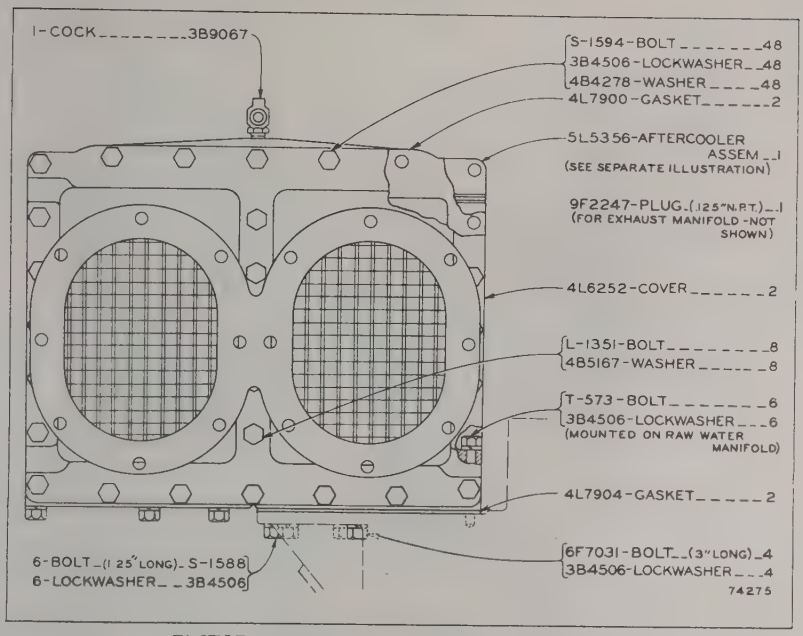

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3N4363 | CORE ASSEM. | 1 |
| 2 | 3N4364 | CORE ASSEM. | 1 |

3N6620 SEA WATER AFTERCOOLER GROUP
Serial No. 66B1415—Up. PROVIDES COPPER NICKEL AFTERCOOLER CORES FOR USE WITH STANDARD JACKET WATER COOLING

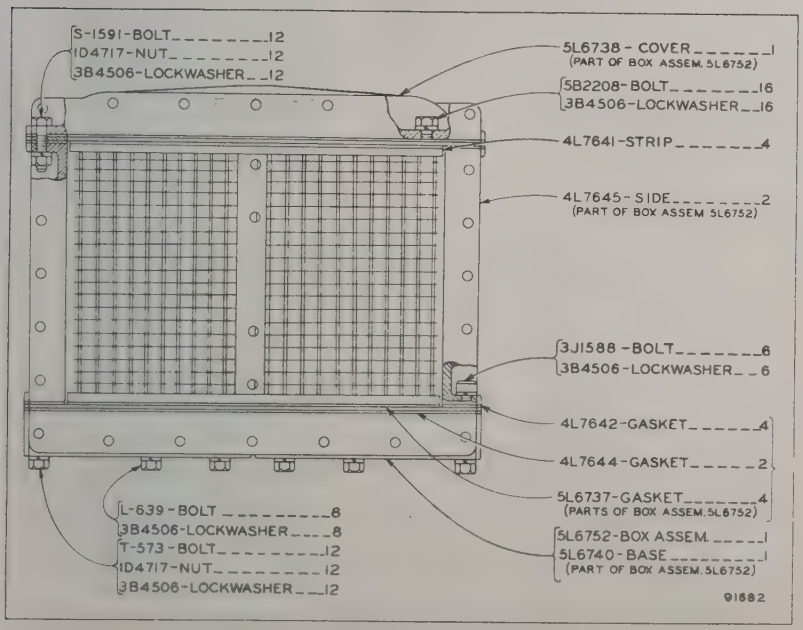



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L7524 | BOLT | 6 |
| 2 | 3B4506 | LOCKWASHER | 8 |
| 3 | 4L6216 | GASKET | 3 |
| 4 | 7L7055 | PLATE | 1 |
| 5 | 8M2331 | GASKET | 2 |
| 6 | 1A2029 | BOLT | 2 |
| 7 | 5L6650 | HOUSING | 1 |
| 8 | 7L7056 | PLATE | 1 |

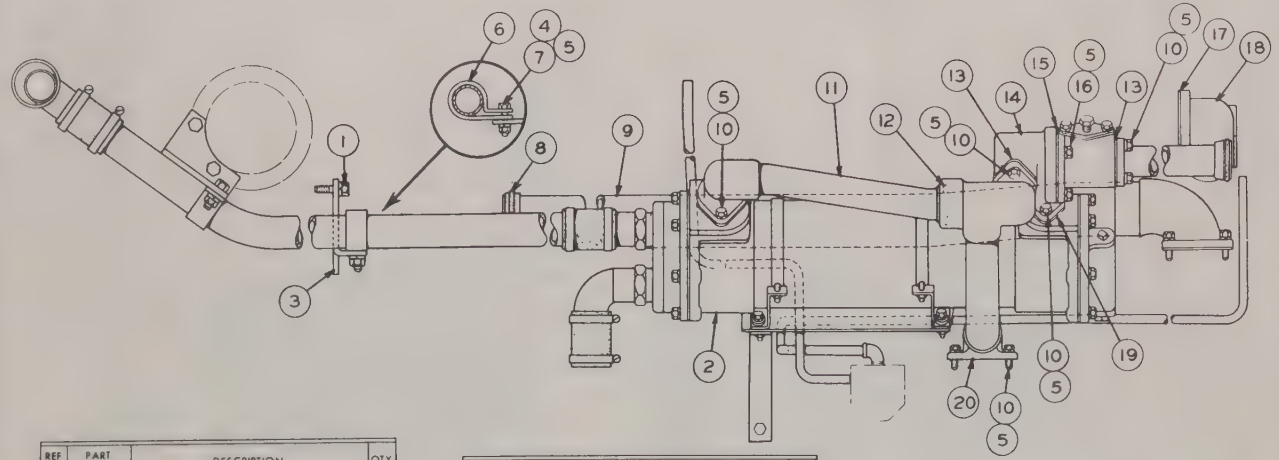
3N9623 TORQUE CONVERTER COOLER CONNECTIONS GROUP
100 GALLONS PER MINUTE CAPACITY. Serial No. 66B1415—Up
FOR USE WITH JACKET WATER AFTERCOOLERS




5L6795 AFTERCOOLER GROUP--RAW WATER
SERIAL NO. 66B700 TO 66B1414 INCLUSIVE




5L5356 AFTERCOOLER ASSEMBLY
PART OF 5L6795 AFTERCOOLER GROUP




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2B947 | BOLT | 2 |
| | 3B4508 | LOCKWASHER | 2 |
| 2 | 6L8157 | HEAT EXCHANGER ASSEM. | 1 |
| 3 | 6L7173 | SUPPORT | 1 |
| 4 | 1D4717 | NUT | 1 |
| 5 | 3B4506 | LOCKWASHER | 15 |
| 6 | 6L7174 | CLIP | 1 |
| 7 | S-1588 | BOLT | 1 |
| 8 | 4F7387 | SEAL | 1 |
| 9 | 2R7077 | TUBE ASSEM. | 1 |
| 10 | 1A2029 | BOLT | 13 |

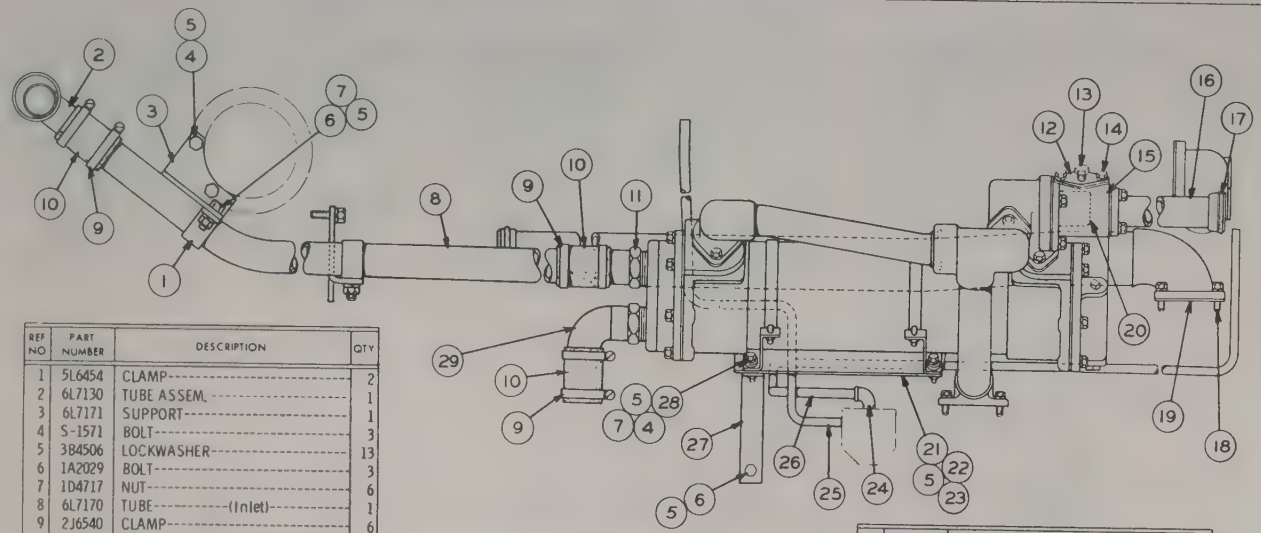
| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 11 | 6L8264 | TUBE ASSEM. | 1 |
| 12 | 6L1650 | SEAL | 2 |
| 13 | 6L5827 | GASKET | 2 |
| 14 | 6L5738 | REGULATOR HOUSING | 1 |
| 15 | 6L5829 | GASKET | 1 |
| 16 | 3B1915 | BOLT | 4 |
| 17 | 6L5298 | GASKET | 1 |
| | 6L7743 | SHIM | 6 |
| 18 | 5L6380 | ELBOW | 1 |
| | 5L6434 | CONTACTOR | 1 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 19 | 8M2331 | GASKET | 1 |
| 20 | 6L8265 | TUBE ASSEM. | 1 |
| | 6L9580 | RETAINER | 1 |
| | S-1571 | BOLT | 2 |
| | 4B4278 | WASHER | 4 |
| | (Not Shown-Oil Line to Filter Inlet Elbow) | | |
| | 5L9945 | AFTERCOOLER CONNECTION GROUP | 1 |
| | (Not Shown-See Separate Illustration) | | |

98843

6L8158 OIL COOLER GROUP--CONTROLLED TEMPERATURE--PART 1
SERIAL NO. 75B1 TO 75B374 INCLUSIVE
5L9945 AFTERCOOLER CONNECTIONS GROUP PARTS ARE SHOWN ON PAGE 128A

# 6L8158 OIL COOLER GROUP--CONTROLLED TEMPERATURE--PART 2
SERIAL NO. 75B1 TO 75B374 INCLUSIVE

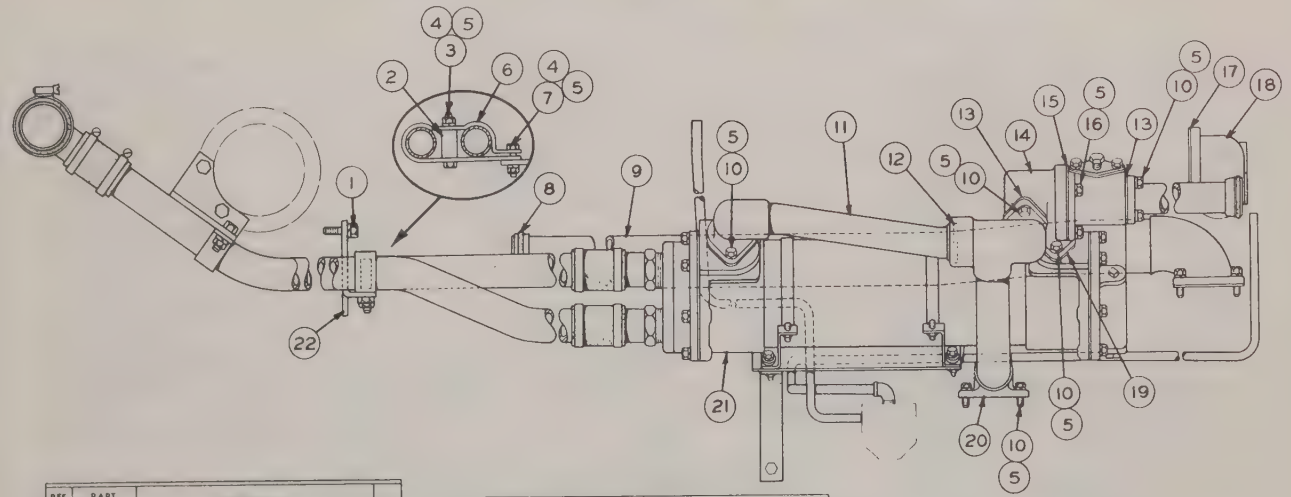



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5L6454 | CLAMP | 2 |
| 2 | 6L7130 | TUBE ASSEM. | 1 |
| 3 | 6L7171 | SUPPORT | 1 |
| 4 | S-1571 | BOLT | 3 |
| 5 | 3B4506 | LOCKWASHER | 13 |
| 6 | 1A2029 | BOLT | 3 |
| 7 | 1D4717 | NUT | 6 |
| 8 | 6L7170 | TUBE (Inlet) | 1 |
| 9 | 2J6540 | CLAMP | 6 |
| 10 | 6L3393 | HOSE | 3 |
| 11 | 5L4957 | ADAPTER ASSEM. | 1 |
| 12 | 6L5812 | FLANGE | 1 |
| | 6L5828 | GASKET | 1 |
| 13 | 3J5389 | PLUG | 1 |
| 14 | S-1618 | BOLT | 2 |
| | 3B4505 | LOCKWASHER | 2 |
| 15 | 6L5816 | HOUSING | 1 |
| 16 | 6L8263 | TUBE ASSEM. | 1 |
| 17 | 6L1651 | SEAL | 3 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 18 | S-1595 | BOLT | 4 |
| | 3B4508 | LOCKWASHER | 4 |
| 19 | 4L8121 | GASKET | 1 |
| 20 | 6L7291 | REGULATOR | 1 |
| 21 | 6L7120 | BRACKET | 1 |
| 22 | L-1143 | BOLT | 4 |
| 23 | 2B941 | SPACER | 4 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 24 | 3B7259 | ELBOW | 1 |
| 25 | 6L7821 | TUBE | 1 |
| 26 | 6L7172 | TUBE | 1 |
| 27 | 6L7118 | BRACE | 1 |
| 28 | 3B1915 | BOLT | 3 |
| | 3L9689 | WASHER | 4 |
| 29 | 5L4959 | ELBOW ASSEM. | 1 |

98844




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2B947 | BOLT | 2 |
| | 3B4508 | LOCKWASHER | 2 |
| 2 | 3H4656 | SPACER | 1 |
| 3 | L-1143 | BOLT | 1 |
| 4 | 1D4717 | NUT | 2 |
| 5 | 3B4506 | LOCKWASHER | 16 |
| 6 | 6L7175 | CLIP | 1 |
| 7 | S-1588 | BOLT | 1 |
| 8 | 4F7387 | SEAL | 1 |
| 9 | 2R7077 | TUBE ASSEM. | 1 |
| 10 | 1A2029 | BOLT | 13 |

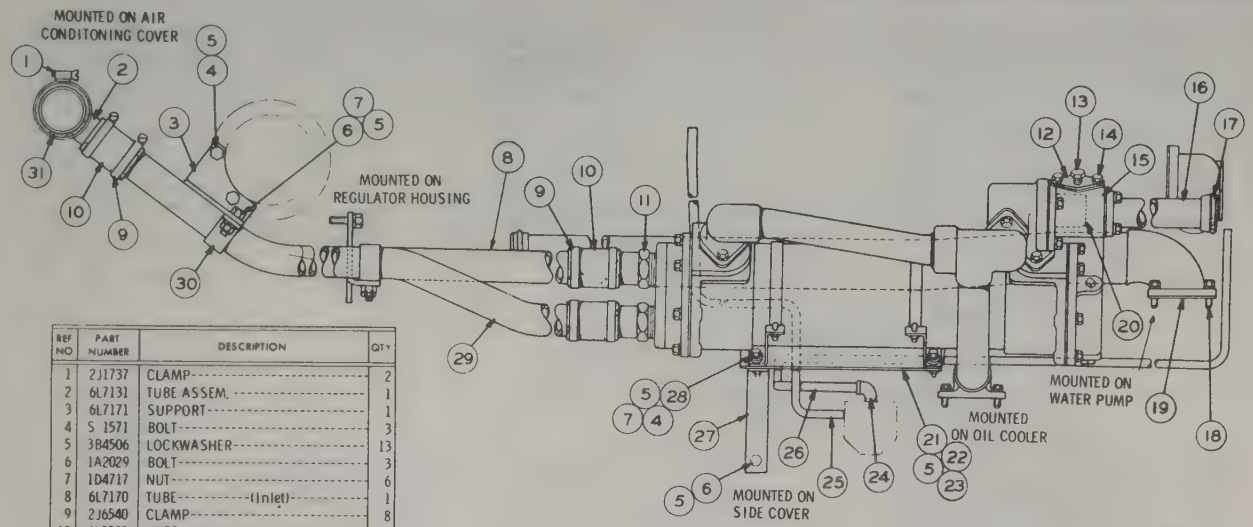
| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 11 | 6L8264 | TUBE ASSEM. | 1 |
| 12 | 6L1650 | SEAL | 2 |
| 13 | 6L5827 | GASKET | 2 |
| 14 | 6L5738 | REGULATOR HOUSING | 1 |
| 15 | 6L5829 | GASKET | 1 |
| 16 | 3B1915 | BOLT | 4 |
| 17 | 6L5298 | GASKET | 1 |
| | 6L7743 | SHIM | 6 |
| 18 | 5L6380 | ELBOW | 1 |
| | 5L6434 | CONTACTOR | 1 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 19 | 8M2331 | GASKET | 1 |
| 20 | 6L8265 | TUBE ASSEM. | 1 |
| 21 | 6L8157 | HEAT EXCHANGER ASSEM. | 1 |
| 22 | 6L7173 | SUPPORT | 1 |
| | 6L9580 | RETAINER | 1 |
| | S-1571 | BOLT | 2 |
| | 4B4278 | WASHER | 4 |
| | (Not Shown-Oil Line to Filter Inlet Elbow) | | |

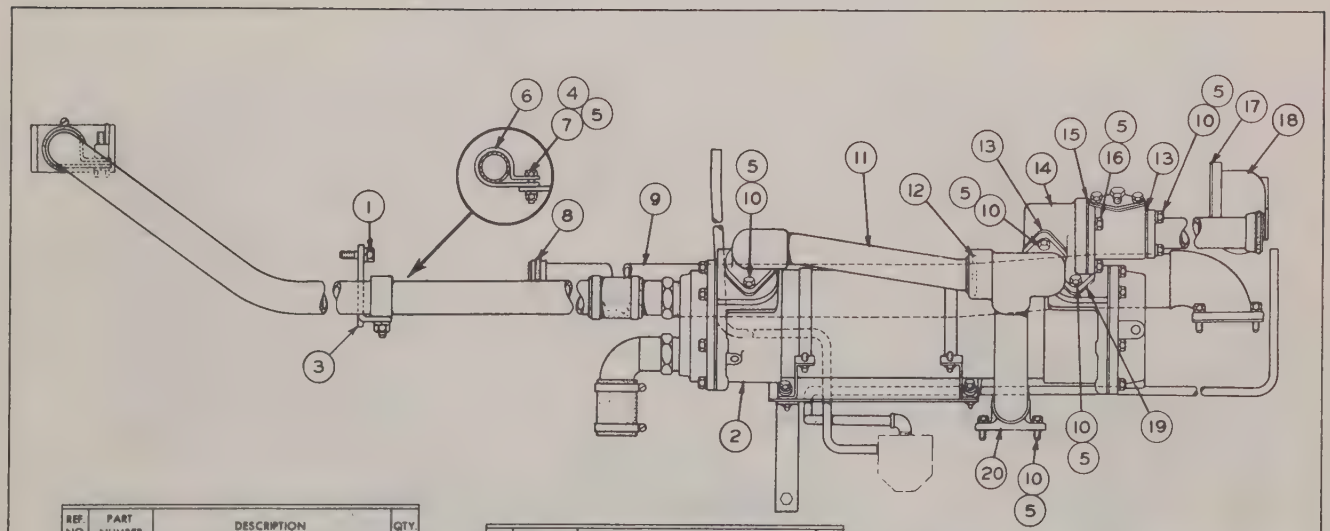
98839

6L3159 OIL COOLER GROUP--CONTROLLED TEMPERATURE--PART 1
SERIAL NO. 75B1 TO 75B374 INCLUSIVE

# 6L8159 OIL COOLER GROUP--CONTROLLED TEMPERATURE--PART 2
SERIAL NO. 7581 TO 75B374 INCLUSIVE




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2J1737 | CLAMP | 2 |
| 2 | 6L7131 | TUBE ASSEM. | 1 |
| 3 | 6L7171 | SUPPORT | 1 |
| 4 | S 1571 | BOLT | 3 |
| 5 | 3B4506 | LOCKWASHER | 13 |
| 6 | 1A2029 | BOLT | 3 |
| 7 | 1D4717 | NUT | 6 |
| 8 | 6L7170 | TUBE (Inlet) | 1 |
| 9 | 2J6540 | CLAMP | 8 |
| 10 | 6L3393 | HOSE | 4 |
| 11 | 5L4957 | ADAPTER ASSEM. | 2 |
| 12 | 6L5812 | FLANGE | 1 |
| | 6L5828 | GASKET | 1 |
| 13 | 3J5389 | PLUG | 1 |
| 14 | S 1618 | BOLT | 2 |
| | 3B4505 | LOCKWASHER | 2 |
| 15 | 6L5816 | HOUSING | 1 |
| 16 | 6L8263 | TUBE ASSEM. | 1 |
| 17 | 6L1651 | SEAL | 3 |
| 18 | S 1595 | BOLT | 4 |
| | 3B4508 | LOCKWASHER | 4 |
| 19 | 4L8121 | GASKET | 1 |
| 20 | 6L7291 | REGULATOR | 1 |
| 21 | 6L7120 | BRACKET | 1 |
| 22 | L 1143 | BOLT | 4 |
| 23 | 2B941 | SPACER | 4 |
| 24 | 3B7259 | ELBOW | 1 |
| 25 | 6L7821 | TUBE | 1 |
| 26 | 6L7172 | TUBE | 1 |
| 27 | 6L7118 | BRACE | 1 |
| 28 | 3B1915 | BOLT | 3 |
| | 3L9689 | WASHER | 4 |
| 29 | 6L7169 | TUBE (Outlet) | 1 |
| C 30 | 5L6454 | CLAMP | 2 |
| 31 | 6L3943 | HOSE | 1 |




| REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 2B947 | BOLT | 2 |
| | 3B4508 | LOCKWASHER | 2 |
| 2 | 1N5340 | HEAT EXCHANGER ASSEM. | 1 |
| 3 | 8L4113 | SUPPORT | 1 |
| 4 | 1D4717 | NUT | 1 |
| 5 | 3B4506 | LOCKWASHER | 15 |
| 6 | 6L7174 | CLIP | 2 |
| 7 | S 1588 | BOLT | 1 |
| 8 | 4F7387 | SEAL | 1 |
| 9 | 2R7077 | TUBE ASSEM. | 1 |
| 10 | 1A2029 | BOLT | 13 |

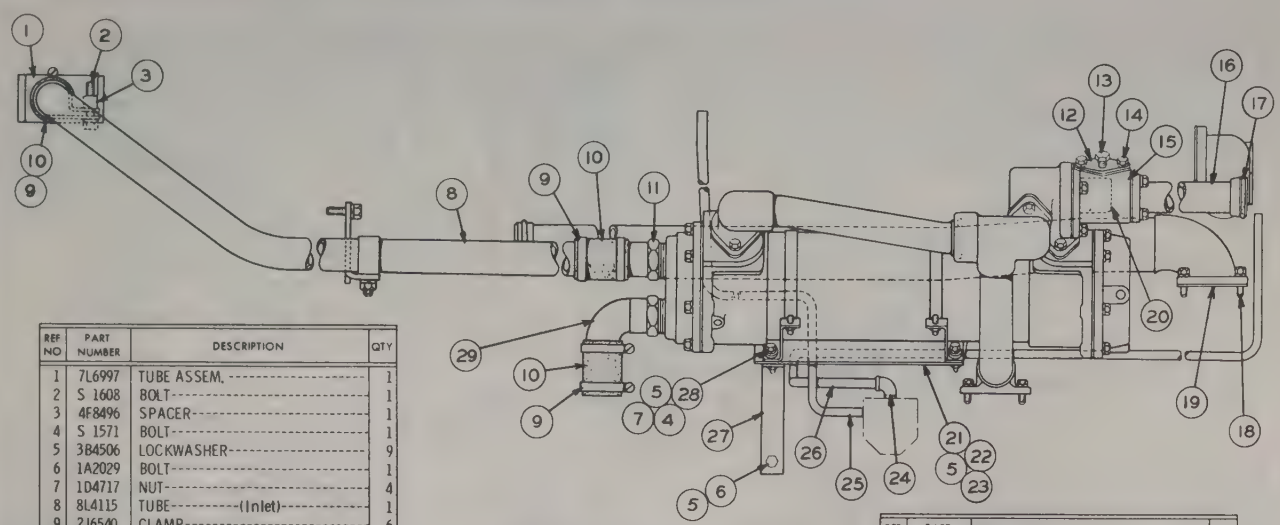
| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 11 | 6L8264 | TUBE ASSEM. | 1 |
| 12 | 6L1650 | SEAL | 2 |
| 13 | 6L5827 | GASKET | 2 |
| 14 | 6L5738 | REGULATOR HOUSING | 1 |
| 15 | 6L5829 | GASKET | 1 |
| 16 | 3B1915 | BOLT | 4 |
| 17 | 6L5298 | GASKET | 1 |
| | 6L7743 | SHIM | 6 |
| 18 | 5L6380 | ELBOW | 1 |
| | 5L6434 | CONTACTOR | 1 |

| REF NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 19 | 8M2331 | GASKET | 1 |
| 20 | 6L8265 | TUBE ASSEM. | 1 |
| | 6L9580 | RETAINER | 1 |
| | S 1571 | BOLT | 2 |
| | 4B4278 | WASHER | 4 |
| | (Not Shown-Oil Line to Filter Inlet Elbow) | | |
| | 6L9016 | AFTERCOOLER CONNECTION GROUP | 1 |
| | (Not Shown-See Separate Illustration) | | |

133154

**6L8158 OIL COOLER GROUP—Controlled Temperature—Part 1**
**Serial No. 75B375—Up**
6L9016 Aftercooler Connections Group parts are shown on Page 128A

# 6L8158 OIL COOLER GROUP—Controlled Temperature—Part 2
Serial No. 75B375—Up

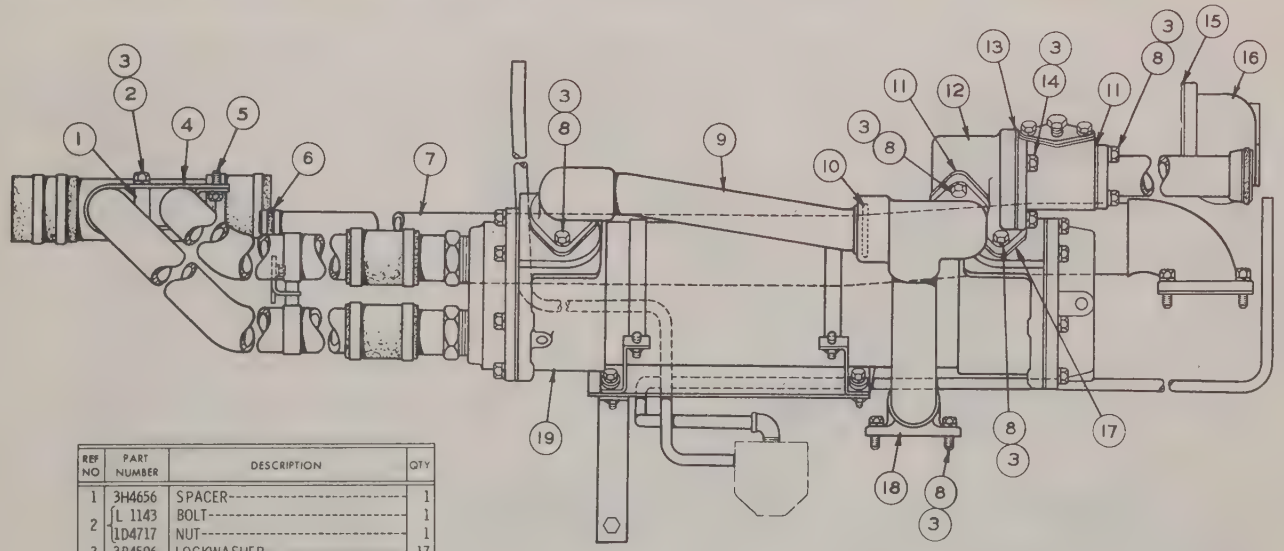



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L6997 | TUBE ASSEM. | 1 |
| 2 | S 1608 | BOLT | 1 |
| 3 | 4F8496 | SPACER | 1 |
| 4 | S 1571 | BOLT | 1 |
| 5 | 3B4506 | LOCKWASHER | 9 |
| 6 | 1A2029 | BOLT | 1 |
| 7 | 1D4717 | NUT | 4 |
| 8 | 8L4115 | TUBE (Inlet) | 1 |
| 9 | 2J6540 | CLAMP | 6 |
| 10 | 6L3393 | HOSE | 3 |
| 11 | 5L4957 | ADAPTER ASSEM. | 1 |
| 12 | 6L5812 | FLANGE | 1 |
| | 6L5828 | GASKET | 1 |
| 13 | 3J5389 | PLUG | 1 |
| 14 | S 1618 | BOLT | 2 |
| | 3B4505 | LOCKWASHER | 2 |
| 15 | 6L5816 | HOUSING | 1 |
| 16 | 6L8263 | TUBE ASSEM. | 1 |
| 17 | 6L1651 | SEAL | 3 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 18 | S 1595 | BOLT | 4 |
| | 3B4508 | LOCKWASHER | 4 |
| 19 | 4L8121 | GASKET | 1 |
| 20 | 4L7615 | REGULATOR | 1 |
| 21 | 6L7120 | BRACKET | 1 |
| 22 | L1143 | BOLT | 4 |
| 23 | 8L4852 | SPACER | 4 |

| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 24 | 3B7259 | ELBOW | 1 |
| 25 | 6L7821 | TUBE | 1 |
| 26 | 6L7172 | TUBE | 1 |
| 27 | 6L7118 | BRACE | 1 |
| 28 | 3B1915 | BOLT | 3 |
| | 3L9689 | WASHER | 4 |
| 29 | 5L4959 | ELBOW ASSEM. | 1 |

133155

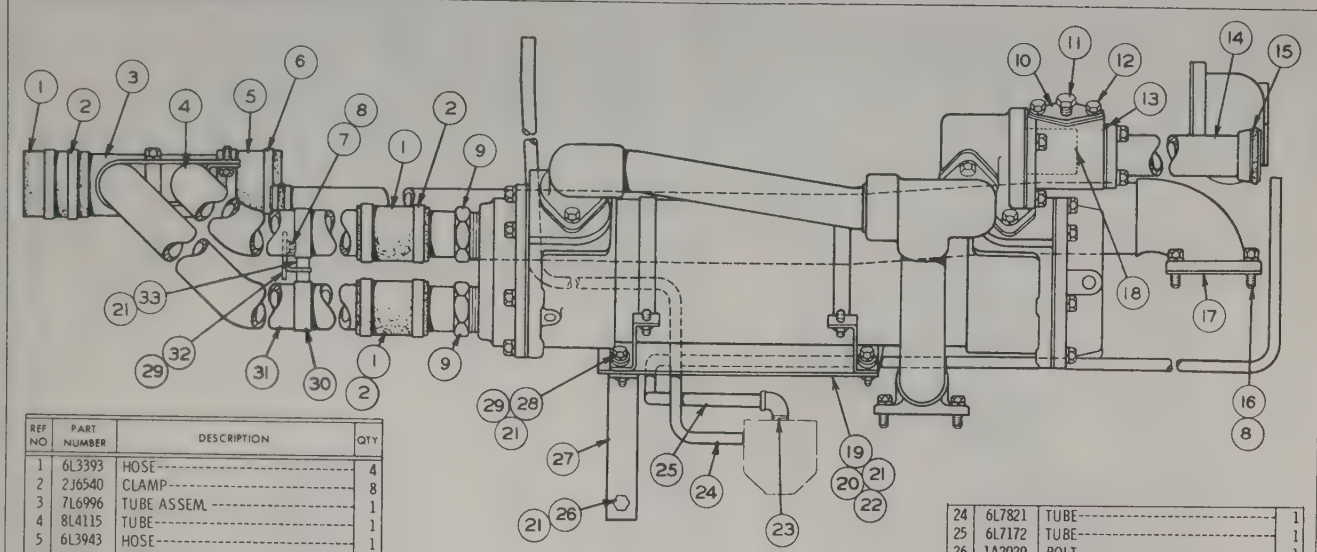


| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3H4656 | SPACER | 1 |
| 2 | L 1143 | BOLT | 1 |
| | 1D4717 | NUT | 1 |
| 3 | 3B4506 | LOCKWASHER | 17 |
| 4 | 6L7175 | CLIP | 1 |
| 5 | S 1608 | BOLT | 1 |
| | 4F8496 | SPACER | 1 |
| 6 | 4F7387 | SEAL | 1 |
| 7 | 2R7077 | TUBE ASSEM. | 1 |
| 8 | 1A2029 | BOLT | 10 |
| 9 | 6L8264 | TUBE ASSEM. | 1 |
| 10 | 6L1650 | SEAL | 2 |
| 11 | 6L5827 | GASKET | 2 |
| 12 | 6L5738 | HOUSING | 1 |
| 13 | 6L5829 | GASKET | 1 |
| 14 | 3B1915 | BOLT | 4 |
| 15 | 6L5298 | GASKET | 1 |
| | 6L7743 | SHIM | 6 |
| 16 | 5L6380 | ELBOW | 1 |
| | 5L6434 | CONTACTOR---(Oil Temperature) | 1 |
| 17 | 8M2331 | GASKET | 1 |
| 18 | 6L8265 | TUBE ASSEM. | 1 |
| 19 | 1N5340 | HEAT EXCHANGER ASSEM. | 1 |
| | 6L9580 | RETAINER | 1 |
| | S 1571 | BOLT | 2 |
| | 4B4278 | WASHER | 4 |
| | (Not Shown-Oil Line to Filter Inlet Elbow) | | |

133156

6L8159 OIL COOLER GROUP—Controlled Temperature—Part 1
Serial No. 758375—Up

## 6L8159 OIL COOLER GROUP—Controlled Temperature—Part 2
Serial No. 75B375—Up

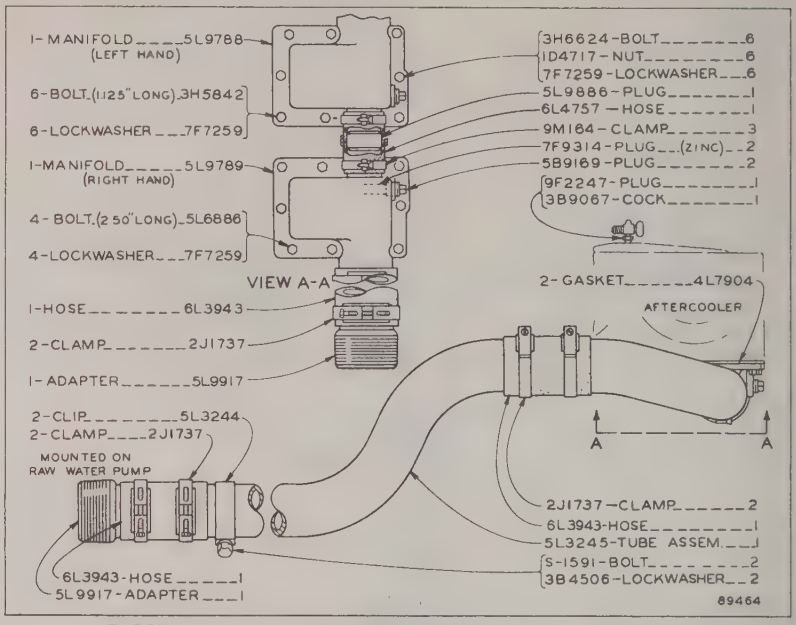



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L3393 | HOSE | 4 |
| 2 | 2J6540 | CLAMP | 8 |
| 3 | 7L6996 | TUBE ASSEM. | 1 |
| 4 | 8L4115 | TUBE | 1 |
| 5 | 6L3943 | HOSE | 1 |
| 6 | 2J1737 | CLAMP | 2 |
| 7 | 2B947 | BOLT | 2 |
| 8 | 3B4508 | LOCKWASHER | 6 |
| 9 | 5L4957 | ADAPTER ASSEM. | 2 |
| 10 | 6L5812 | FLANGE | 1 |
| | 6L5828 | GASKET | 1 |
| 11 | 3J5389 | PLUG | 1 |
| 12 | S 1618 | BOLT | 2 |
| | 3B4505 | LOCKWASHER | 2 |
| 13 | 6L5816 | HOUSING | 1 |
| 14 | 6L8263 | TUBE ASSEM. | 1 |

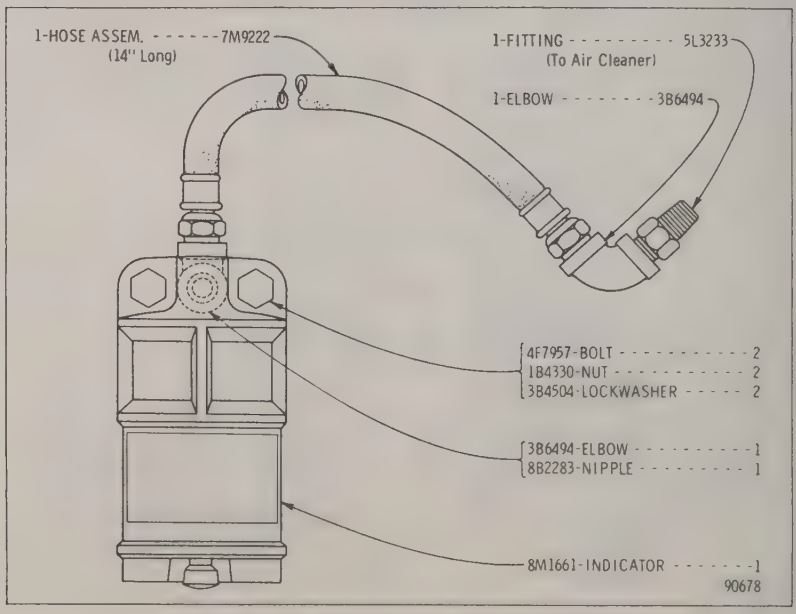
| | | | |
|---|---|---|---|
| 15 | 6L1651 | SEAL | 3 |
| 16 | S 1595 | BOLT | 4 |
| 17 | 4L8121 | GASKET | 1 |
| 18 | 4L7615 | REGULATOR | 1 |
| 19 | 6L7120 | BRACKET | 1 |
| 20 | L 1143 | BOLT | 4 |
| 21 | 3B4506 | LOCKWASHER | 10 |
| 22 | 8L4852 | SPACER | 4 |
| 23 | 3B7259 | ELBOW | 1 |

| | | | |
|---|---|---|---|
| 24 | 6L7821 | TUBE | 1 |
| 25 | 6L7172 | TUBE | 1 |
| 26 | 1A2029 | BOLT | 1 |
| 27 | 6L7118 | BRACE | 1 |
| 28 | 3B1915 | BOLT | 3 |
| | S 1571 | BOLT | 1 |
| | 3L9689 | WASHER | 4 |
| 29 | 1D4717 | NUT | 5 |
| 30 | 6L7174 | CLAMP | 2 |
| 31 | 8L4114 | TUBE | 1 |
| 32 | 8L4113 | SUPPORT | 1 |
| 33 | 3K1470 | SPACER | 1 |
| | S 1590 | BOLT | 1 |
| | 4B4278 | WASHER | 4 |

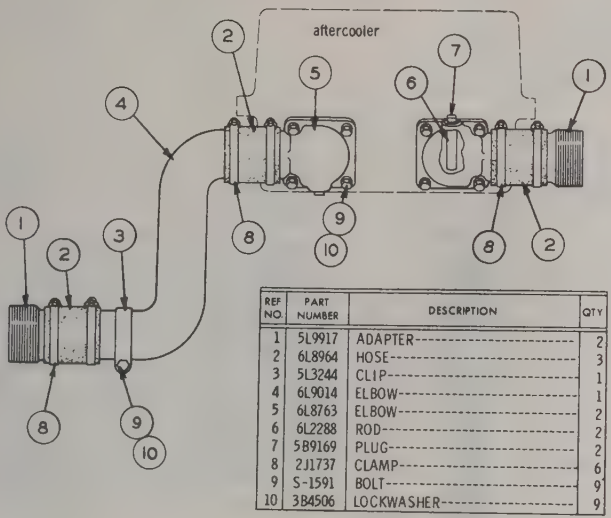
133157




5L9945 AFTERCOOLER CONNECTIONS GROUP--FULL FLOW
SERIAL NO. 66B700 TO 66B1414 INCLUSIVE
FOR USE WITH 5L6795 AFTERCOOLER GROUP SHOWN ON PAGE 127
ALSO PART OF 6L8158 OIL COOLER GROUP SHOWN ON PAGE 127A

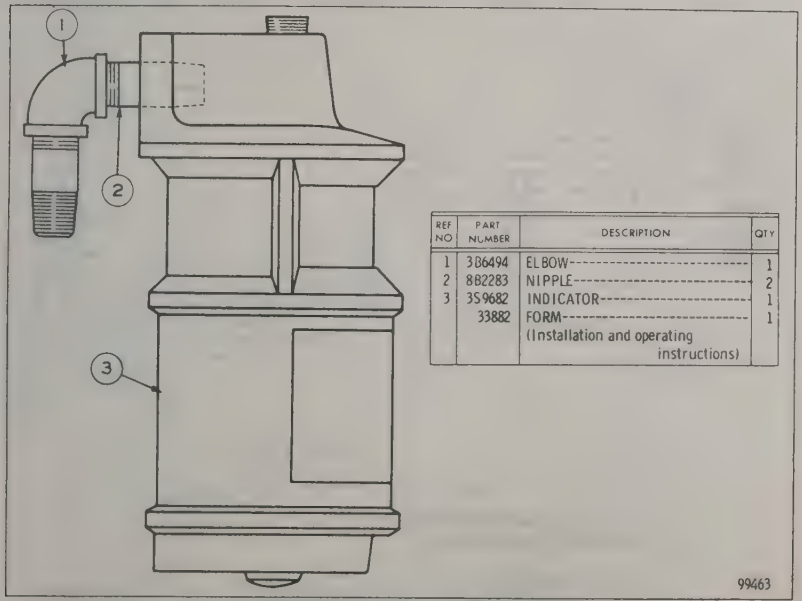



6L5833 AIR FILTER INDICATOR GROUP
SERIAL NO. 66B700 TO 66B1414 AND 75B1 TO 75B374 INCLUSIVE



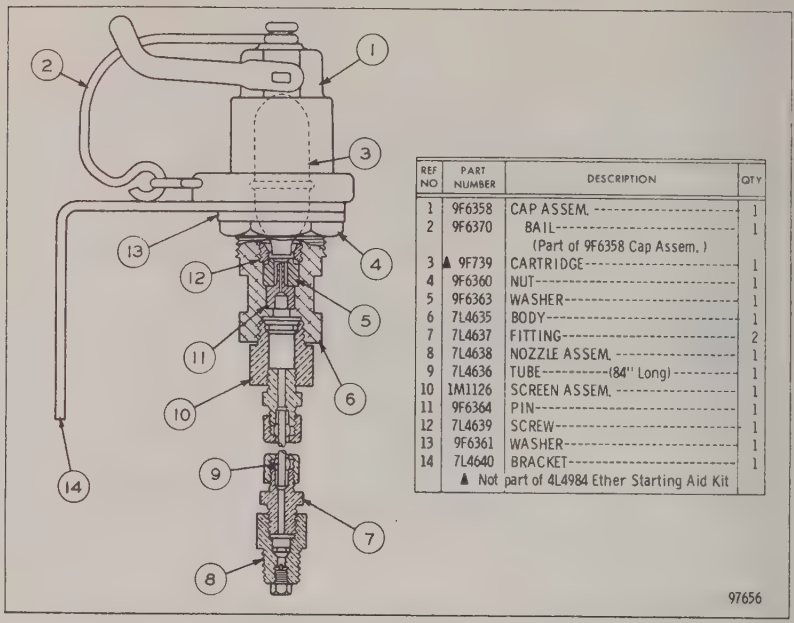

| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5L9917 | ADAPTER | 2 |
| 2 | 6L8964 | HOSE | 3 |
| 3 | 5L3244 | CLIP | 1 |
| 4 | 6L9014 | ELBOW | 1 |
| 5 | 6L8763 | ELBOW | 2 |
| 6 | 6L2288 | ROD | 2 |
| 7 | 5B9169 | PLUG | 2 |
| 8 | 2J1737 | CLAMP | 6 |
| 9 | S-1591 | BOLT | 9 |
| 10 | 3B4506 | LOCKWASHER | 9 |

6L9016 AFTERCOOLER CONNECTIONS GROUP--FULL FLOW
EFFECTIVE WITH SERIAL NO. 66B1415
FOR USE WITH 6L6394 AFTERCOOLER GROUP SHOWN ON PAGE 126A
ALSO PART OF 6L8158 OIL COOLER GROUP SHOWN ON PAGE 127E




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3B6494 | ELBOW | 1 |
| 2 | 8B2283 | NIPPLE | 2 |
| 3 | 3S9682 | INDICATOR | 1 |
| | 33882 | FORM (Installation and operating instructions) | 1 |

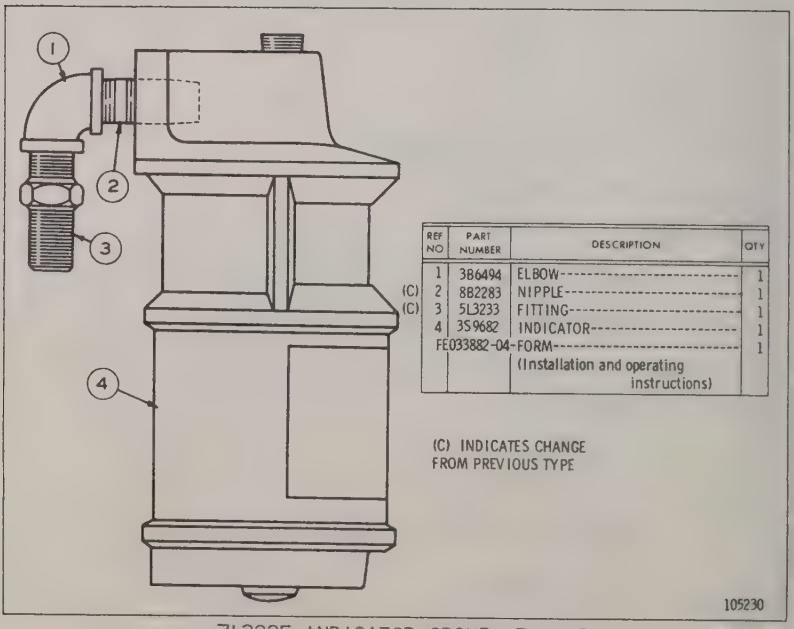
7L3225 INDICATOR GROUP--TYPE 1
EFFECTIVE WITH SERIAL NO. 66B1415-UP AND 75B375-UP
FOR USE WITH PANEL, DRY TYPE AIR CLEANER




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 9F6358 | CAP ASSEM. | 1 |
| 2 | 9F6370 | BAIL (Part of 9F6358 Cap Assem.) | 1 |
| 3 | ▲ 9F739 | CARTRIDGE | 1 |
| 4 | 9F6360 | NUT | 1 |
| 5 | 9F6363 | WASHER | 1 |
| 6 | 7L4635 | BODY | 1 |
| 7 | 7L4637 | FITTING | 2 |
| 8 | 7L4638 | NOZZLE ASSEM. | 1 |
| 9 | 7L4636 | TUBE (84" Long) | 1 |
| 10 | 1M1126 | SCREEN ASSEM. | 1 |
| 11 | 9F6364 | PIN | 1 |
| 12 | 7L4639 | SCREW | 1 |
| 13 | 9F6361 | WASHER | 1 |
| 14 | 7L4640 | BRACKET | 1 |

▲ Not part of 4L4984 Ether Starting Aid Kit

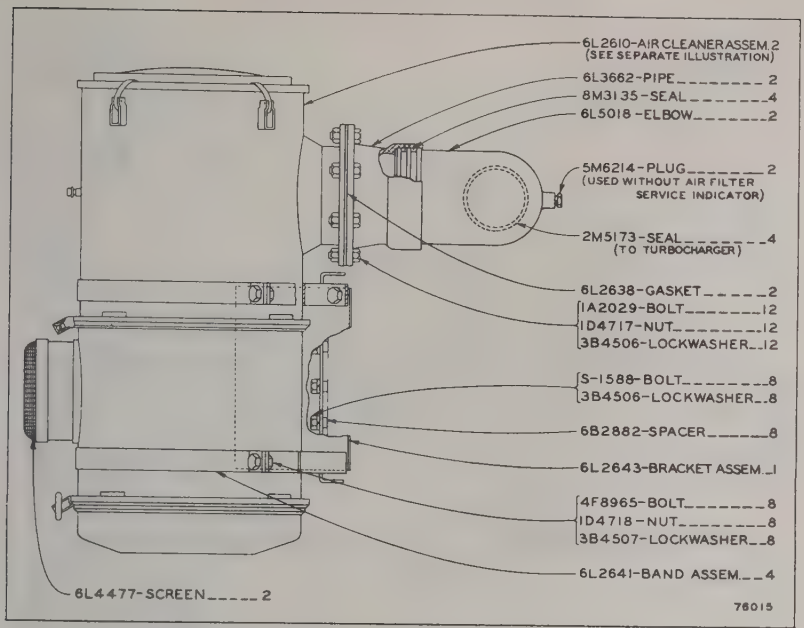
4L4984 ETHER STARTING AID KIT



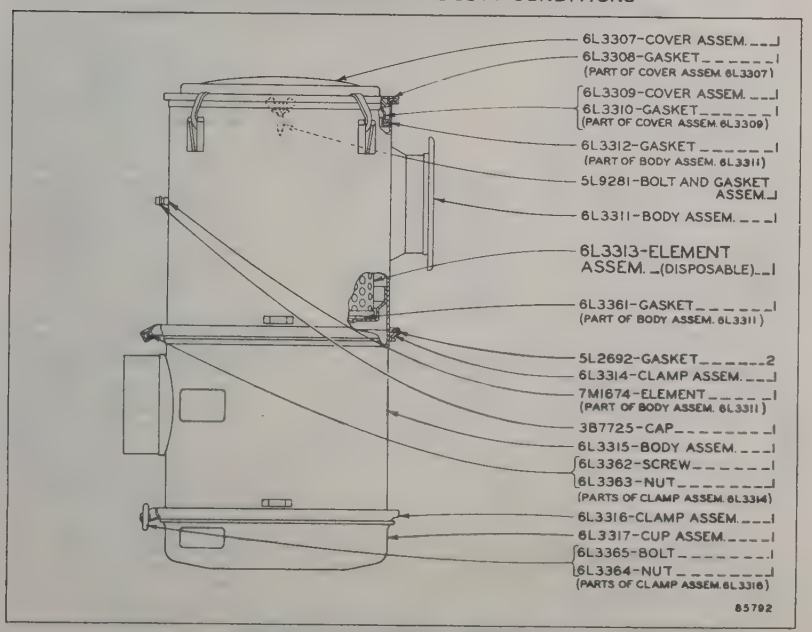

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3B6494 | ELBOW | 1 |
| (C) 2 | 8B2283 | NIPPLE | 1 |
| (C) 3 | 5L3233 | FITTING | 1 |
| 4 | 3S9682 | INDICATOR | 1 |
| FE033882-04 | | FORM (Installation and operating instructions) | 1 |

(C) INDICATES CHANGE FROM PREVIOUS TYPE

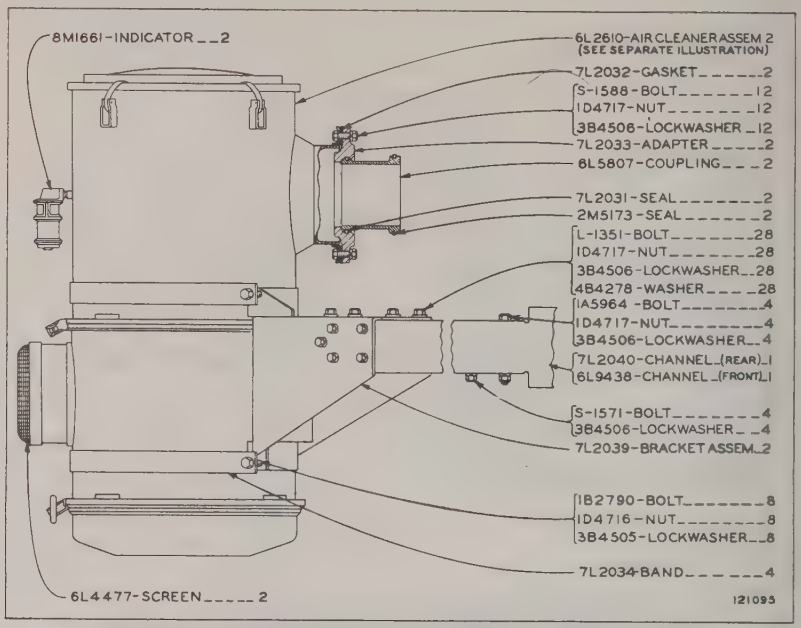
7L3225 INDICATOR GROUP--TYPE 2
EFFECTIVE WITH SERIAL NO. 66B1415-UP AND 75B375-UP
FOR USE WITH PANEL, DRY TYPE AIR CLEANER



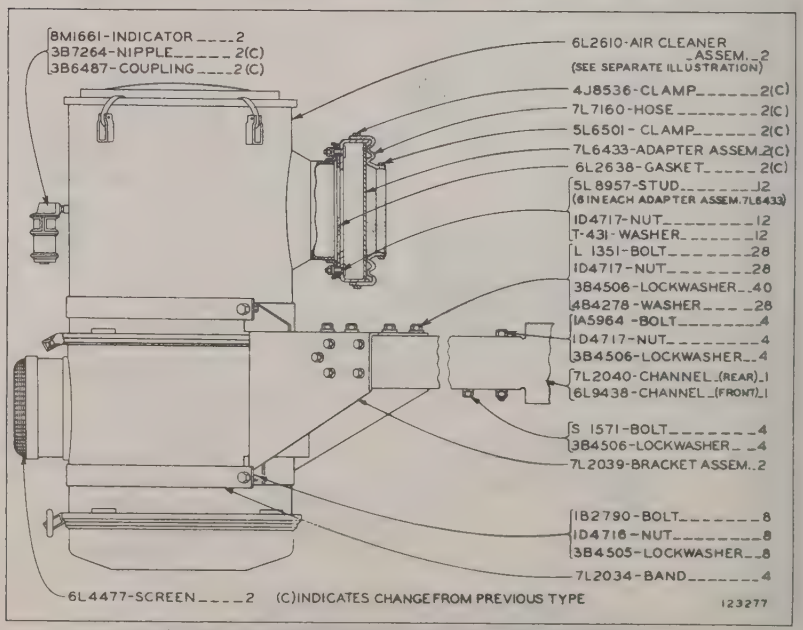

6L3851 AIR CLEANER GROUP—Two Stage—Heavy Duty
Serial No. 66B700 to 66B1414 inclusive and 75B1 to 75B374 inclusive
FOR USE IN EXTREMELY DUSTY CONDITIONS



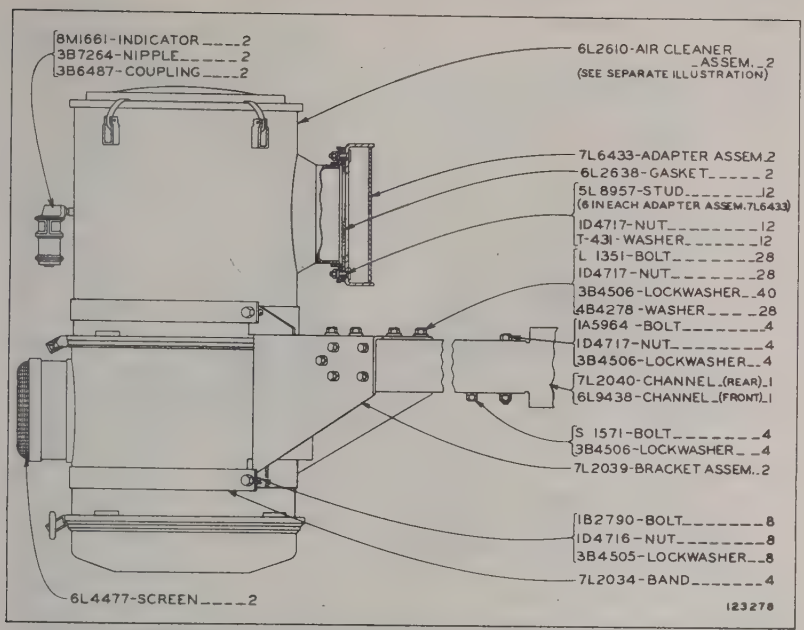

6L2610 AIR CLEANER ASSEMBLY
Part of 6L3851 and 7L2029 Air Cleaner Groups
shown on Pages 129, 129A and 129B



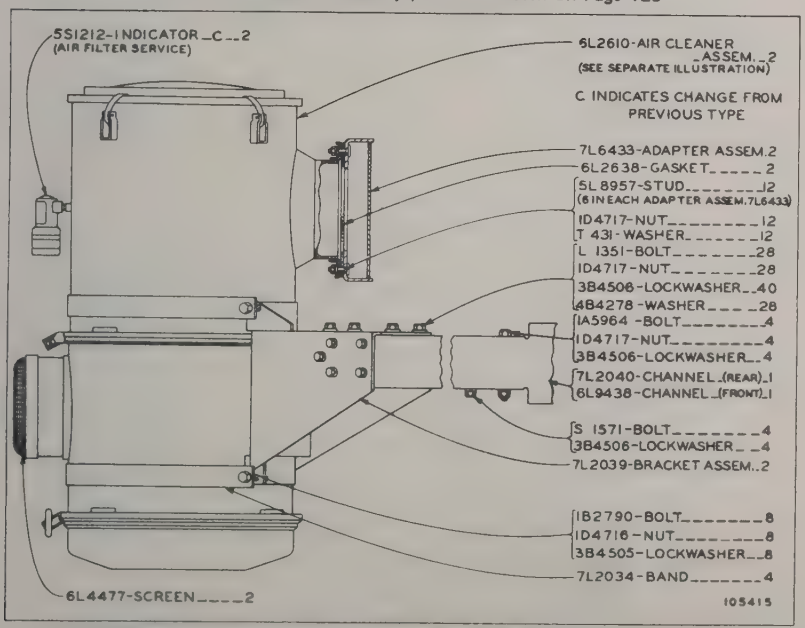

7L2029 AIR CLEANER GROUP—Two Stage—Heavy Duty—Type 1
Effective with Serial No. 66B1415-Up and 75B375-Up
6L2610 Air Cleaner Assembly parts are shown on Page 129



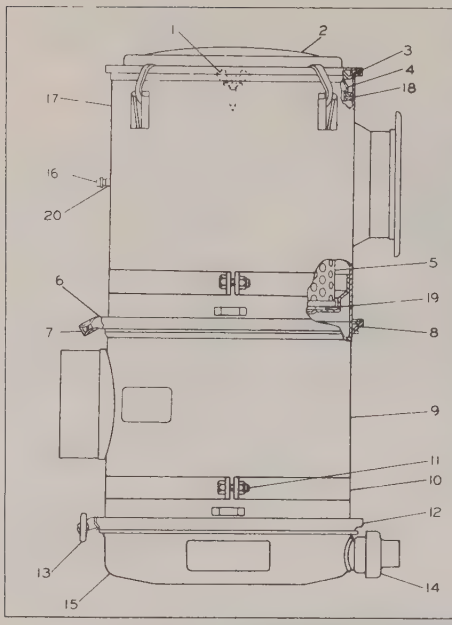

7L2029 AIR CLEANER GROUP—Two Stage—Heavy Duty—Type 2
Effective with Serial No. 66B1415-Up and 75B375-Up
6L2610 Air Cleaner Assembly parts are shown on Page 129




7L2029 AIR CLEANER GROUP—Two Stage—Heavy Duty—Type 3
Effective with Serial No. 66B1415-Up and 75B375-Up
6L2610 Air Cleaner Assembly parts are shown on Page 129




7L2029 AIR CLEANER GROUP—Two Stage—Heavy Duty—Type 4
Effective with Serial No. 66B1415-Up and 75B375-Up
6L2610 Air Cleaner Assembly parts are shown on Page 129

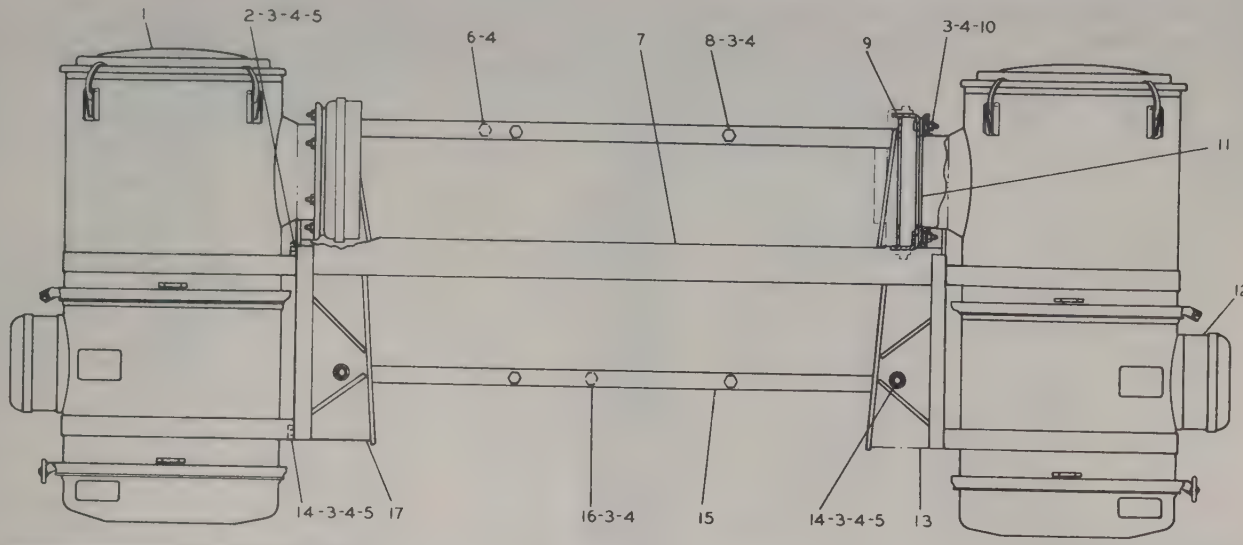



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5L9281 | BOLT AND GASKET ASSEM. | 1 |
| 2 | 6L3307 | COVER ASSEM. | 1 |
| 3 | 6L3308 | GASKET | 1 |
| 4 | 6L3309 | COVER ASSEM (Inner) | 1 |
| | 6L3310 | GASKET | 1 |
| 5 | 6L3313 | ELEMENT ASSEM. | 1 |
| 6 | 6L3314 | CLAMP ASSEM. | 1 |
| 7 | 6L3362 | SCREW | 1 |
| | 6L3363 | NUT | 1 |
| 8 | 5L2692 | GASKET | 2 |
| 9 | 6L3315 | BODY ASSEM. | 1 |
| 10 | 6L2641 | BAND ASSEM. | 2 |
| 11 | 5 1591 | BOLT | 1 |
| | 1D4717 | NUT | 1 |
| 12 | 6L3316 | CLAMP ASSEM. | 1 |
| 13 | 6L3365 | BOLT | 1 |
| | 6L3364 | NUT | 1 |
| 14 | 1S5485 | VALVE | 1 |
| 15 | 1N8167 | CUP ASSEM. | 1 |
| 16 | 3B7725 | CAP | 1 |
| 17 | 6L3311 | BODY ASSEM. | 1 |
| 18 | 6L3312 | GASKET | 1 |
| 19 | 6L3361 | GASKET | 1 |
| 20 | 7M1674 | ELEMENT | 1 |

139192

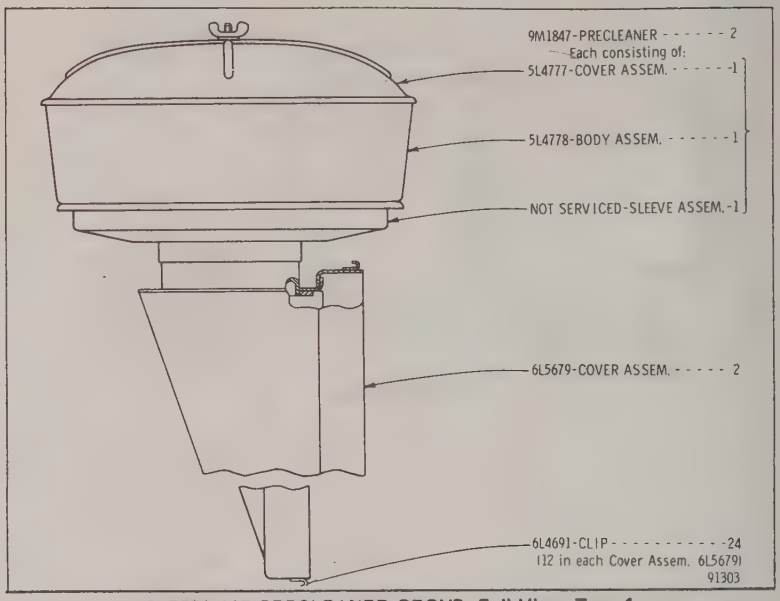
**3N3740 AIR CLEANER GROUP**
**Serial No. 66B1415—Up**
**Part of 3N3741 Air Cleaner Group**

## 3N3741 AIR CLEANER GROUP—Heavy Duty
Serial No. 6681415—Up

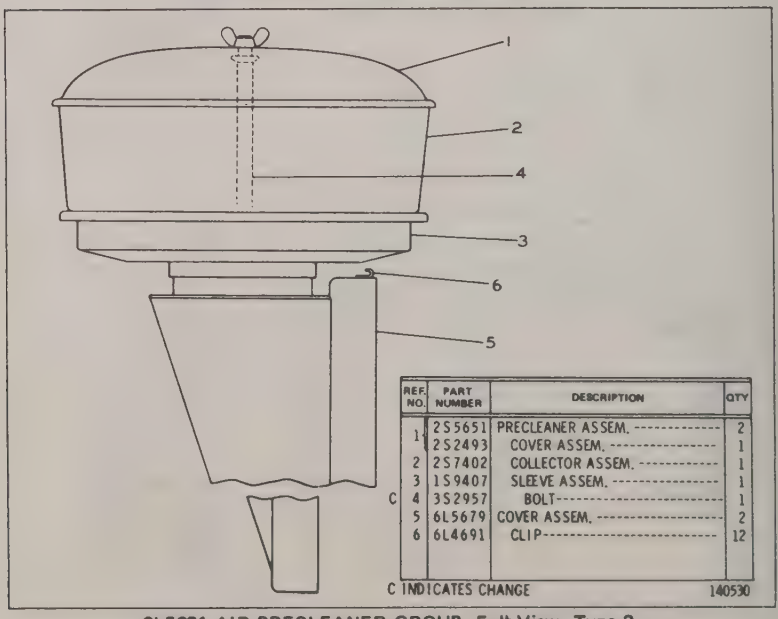



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3N3740 | CLEANER GROUP---------- (Separate Illustration) | 2 |
| 2 | 1A2029 | BOLT---------- | 2 |
| 3 | 1D4717 | NUT---------- | 44 |
| 4 | 3B4506 | LOCKWASHER---------- | 48 |
| 5 | 4B4278 | WASHER---------- | 16 |
| 6 | S1571 | BOLT---------- | 4 |
| 7 | 3N2024 | BRACE---------- | 1 |
| 8 | 1A1583 | BOLT---------- | 4 |
| 9 | 7L6433 | ADAPTER ASSEM.---------- | 2 |
| 10 | T431 | WASHER---------- | 12 |
| 11 | 6L2638 | GASKET---------- | 2 |
| 12 | 6L4477 | SCREEN---------- | 2 |
| 13 | 3N2030 | SUPPORT ASSEM.---------- | 1 |
| 14 | S1594 | BOLT---------- | 14 |
| 15 | 3N2023 | CHANNEL---------- | 2 |
| 16 | S1590 | BOLT---------- | 12 |
| 17 | 3N2027 | SUPPORT ASSEM.---------- | 1 |

139191



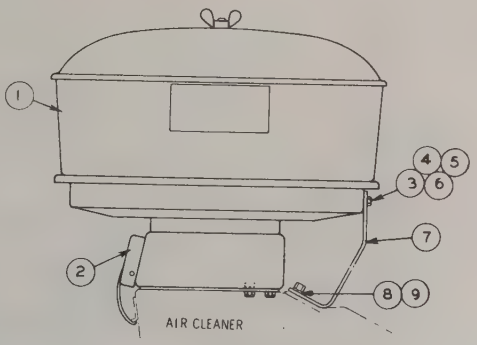

**6L5681 AIR PRECLEANER GROUP—Full View—Type 1**
**Serial No. 66B700 to 66B1690 inclusive and 75B1 to 537, 539 to 652, 654 to 658, 660 to 681 and 687 to 75B689 inclusive**
**FOR USE WITH PANEL TYPE AIR CLEANER**




| | REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| | 1 | 2S5651 | PRECLEANER ASSEM. | 2 |
| | | 2S2493 | COVER ASSEM. | 1 |
| | 2 | 2S7402 | COLLECTOR ASSEM. | 1 |
| | 3 | 1S9407 | SLEEVE ASSEM. | 1 |
| C | 4 | 3S2957 | BOLT | 1 |
| | 5 | 6L5679 | COVER ASSEM. | 2 |
| | 6 | 6L4691 | CLIP | 12 |

C INDICATES CHANGE 140530

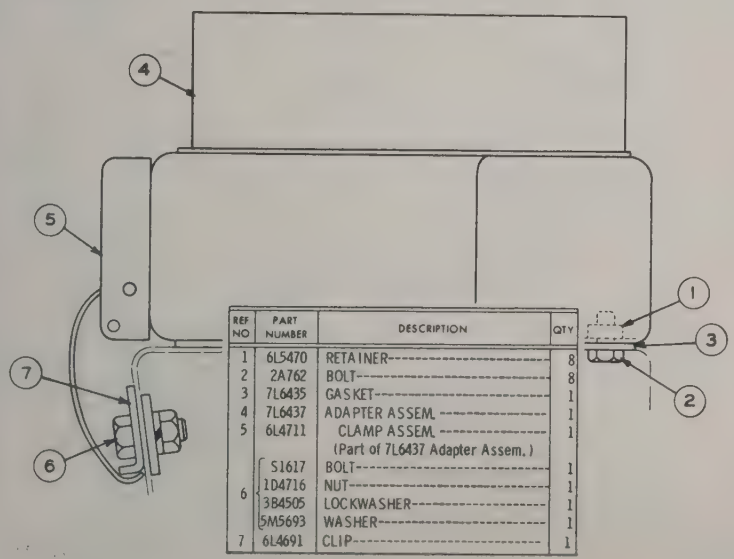
**6L5681 AIR PRECLEANER GROUP—Full View—Type 2**
**Serial No. 66B700 to 66B1690 inclusive and 75B1 to 537, 539 to 652, 654 to 658, 660 to 681 and 687 to 75B689 inclusive**
**FOR USE WITH PANEL TYPE AIR CLEANER**




| | REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| C | 1 | 2S5651 | PRECLEANER ASSEM. (Separate Illustration) | 2 |
| | 2 | 7L8675 | ADAPTER GROUP (Separate Illustration) | 2 |
| | 3 | S1615 | BOLT | 2 |
| | 4 | 1B4330 | NUT | 2 |
| | 5 | 3B4504 | LOCKWASHER | 2 |
| | 6 | 4B4276 | WASHER | 2 |
| | 7 | 8L5918 | BRACE | 2 |
| | 8 | 1A2029 | BOLT | 2 |
| | 9 | 3B4506 | LOCKWASHER | 2 |

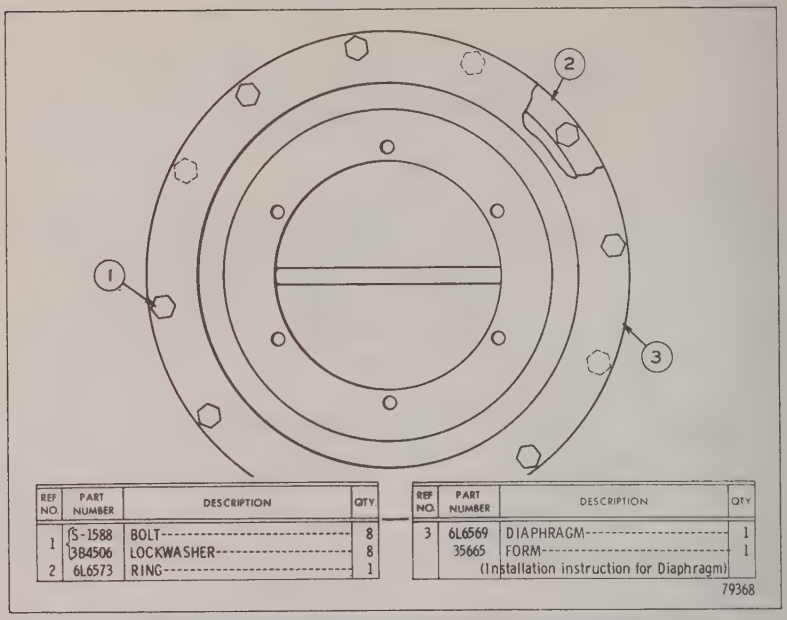
C INDICATES CHANGE 145467

7L8674 AIR CLEANER AND MOUNTING GROUP
Serial No. 66B1691—Up and 75B538, 653, 659, 682 to 686 and 75B690—Up
2S5651 Precleaner parts are shown on Page 130B




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L5470 | RETAINER | 8 |
| 2 | 2A762 | BOLT | 8 |
| 3 | 7L6435 | GASKET | 1 |
| 4 | 7L6437 | ADAPTER ASSEM. | 1 |
| 5 | 6L4711 | CLAMP ASSEM. (Part of 7L6437 Adapter Assem.) | 1 |
| 6 | S1617 | BOLT | 1 |
| | 1D4716 | NUT | 1 |
| | 3B4505 | LOCKWASHER | 1 |
| | 5M5693 | WASHER | 1 |
| 7 | 6L4691 | CLIP | 1 |

7L8675 AIR CLEANER ADAPTER GROUP
Part of 7L8674 Air Precleaner and Mounting Group

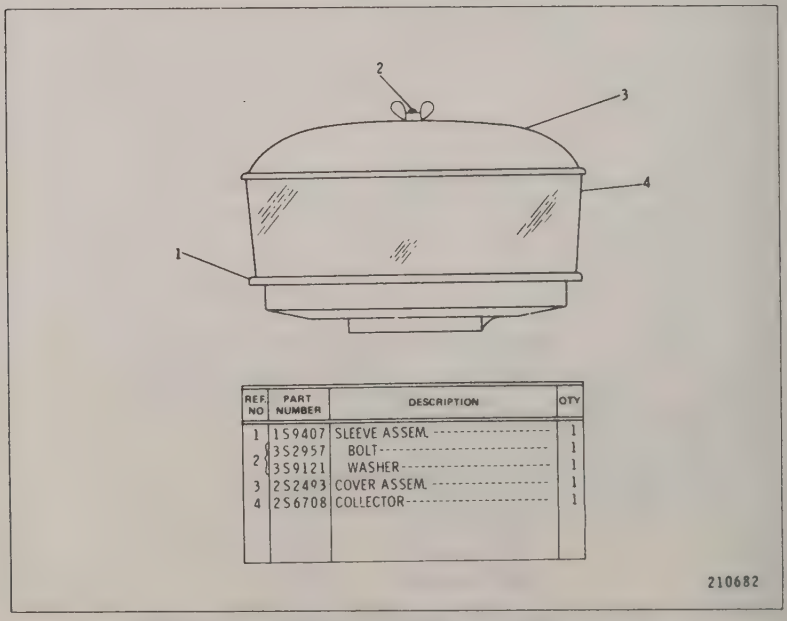



| REF NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 1S-1588 | BOLT | 8 |
| | 3B4506 | LOCKWASHER | 8 |
| 2 | 6L6573 | RING | 1 |

| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 3 | 6L6569 | DIAPHRAGM | 1 |
| | 35665 | FORM | 1 |
| | | (Installation instruction for Diaphragm) | |

79368

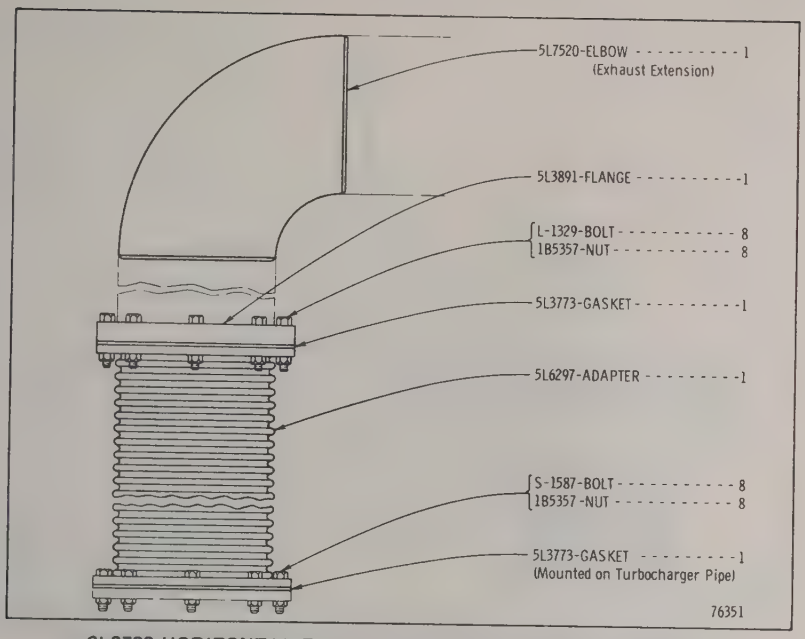
6L8413 AIR CLEANER DIAPHRAGM REPLACEMENT GROUP
Serial No. 66B700 to 66B1009 inclusive and 75B1 to 75B188 inclusive



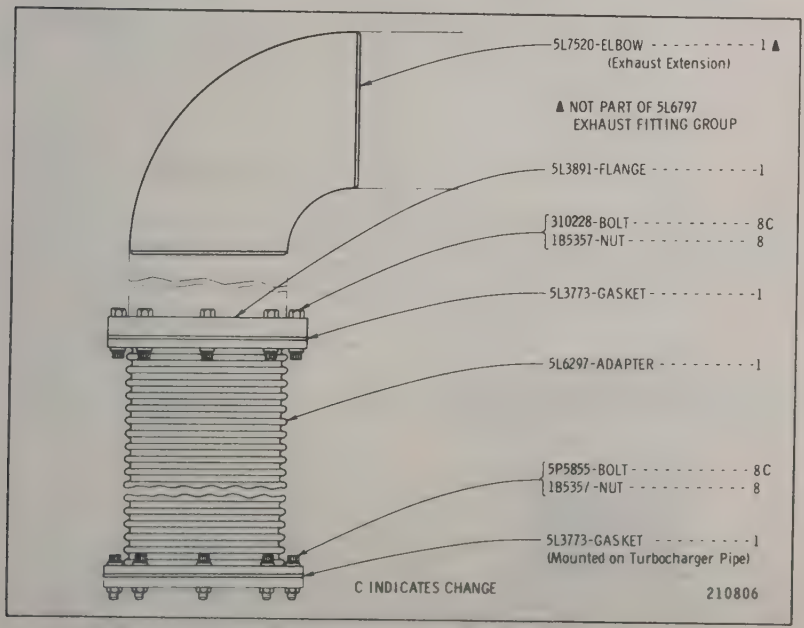

| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 1S9407 | SLEEVE ASSEM. | 1 |
| 2 | 3S2957 | BOLT | 1 |
| | 3S9121 | WASHER | 1 |
| 3 | 2S2493 | COVER ASSEM. | 1 |
| 4 | 2S6708 | COLLECTOR | 1 |

210682

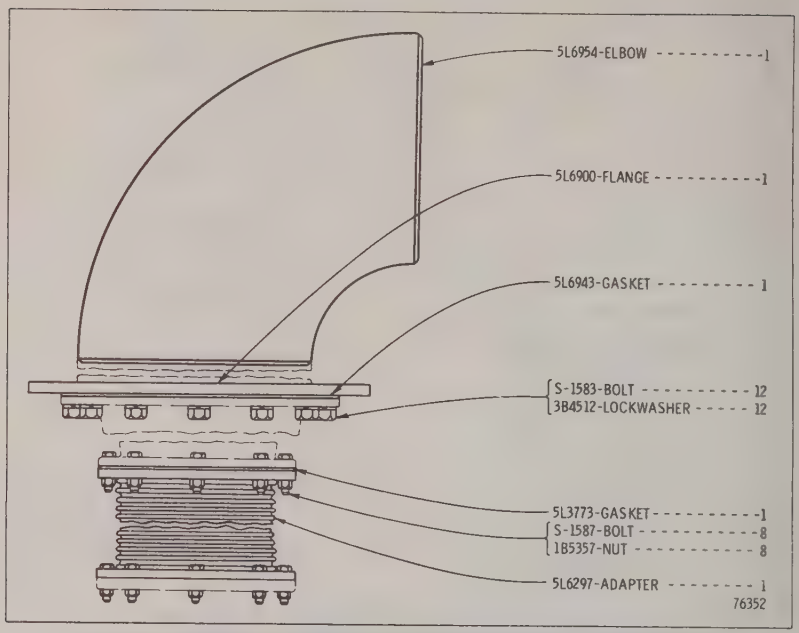
2S5651 PRECLEANER ASSEMBLY
Serial No. 66B1691—Up and 75B538, 653, 659, 682 to 686 and 75B690—Up
Part of 7L8674 Air Cleaner and Mounting Group shown on Page 130A



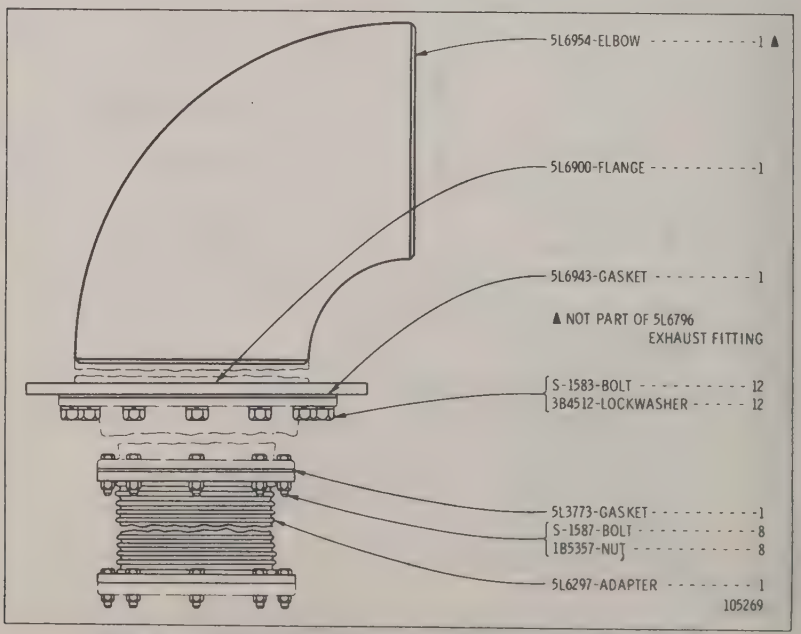

**6L3733 HORIZONTAL EXHAUST FITTING GROUP—8 Inch Flexible**
**Only separate parts serviced. When complete Group is required order 5L6797**



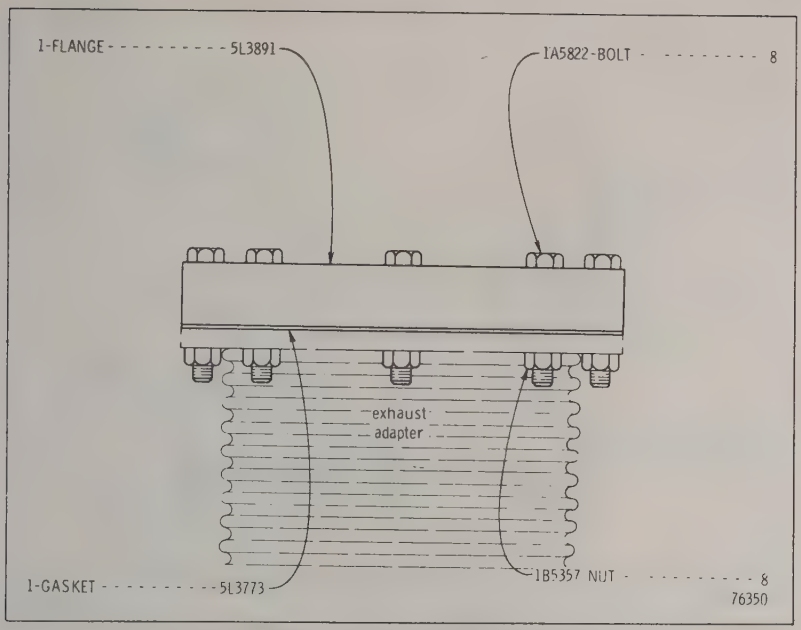

**5L6797 VERTICAL EXHAUST FITTING GROUP—8 Inch Flexible**



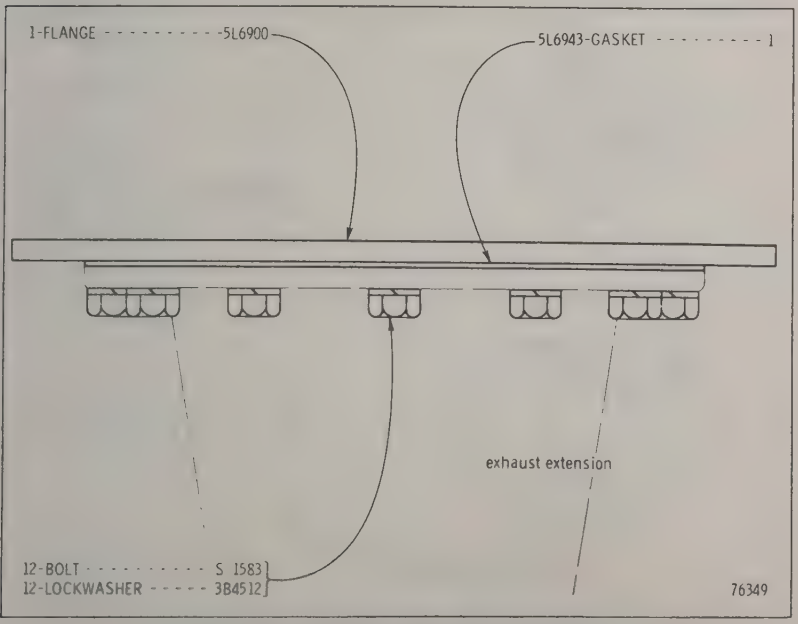

**6L3734 HORIZONTAL EXHAUST FITTING GROUP—12 Inch Flexible**
**Only separate parts serviced. When complete Group is required order 5L6796**



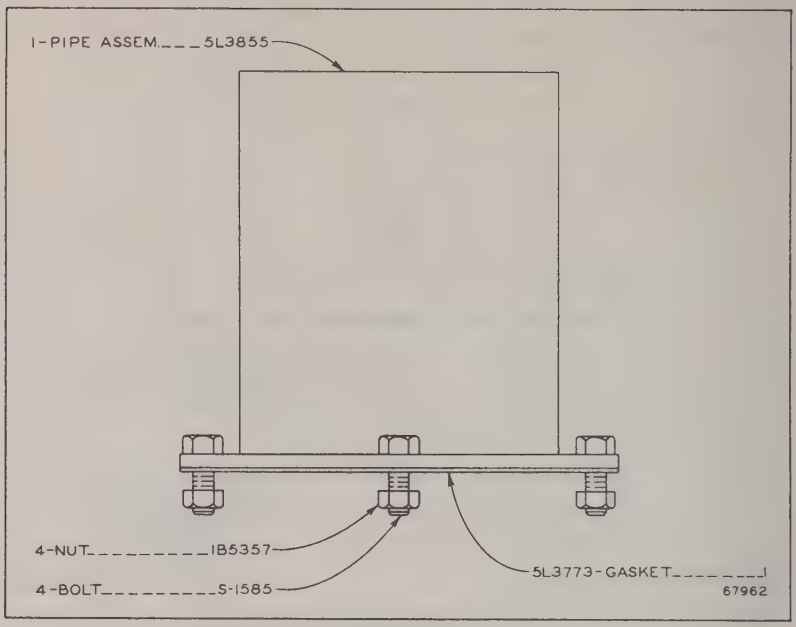

**5L6796 VERTICAL EXHAUST FITTING GROUP—12 Inch Flexible**



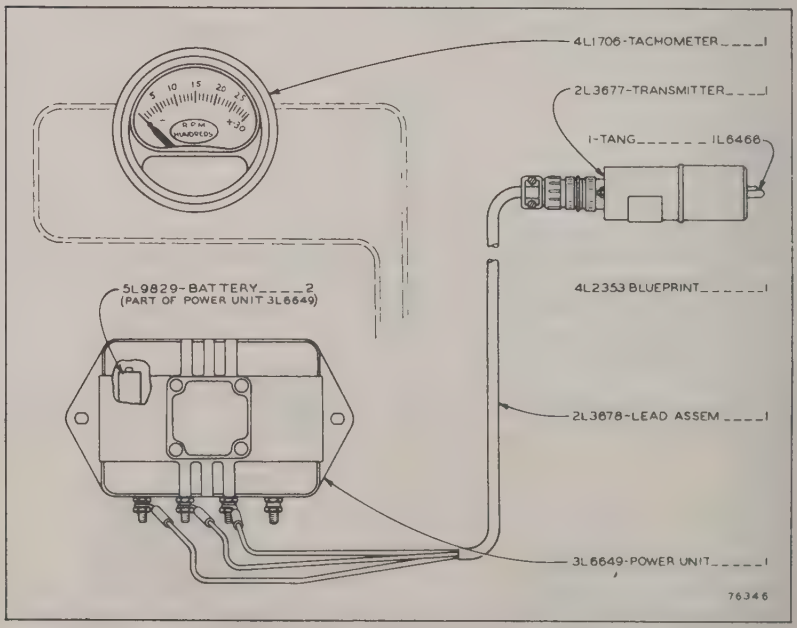

6L3642 EXHAUST FLANGE GROUP—8 Inch



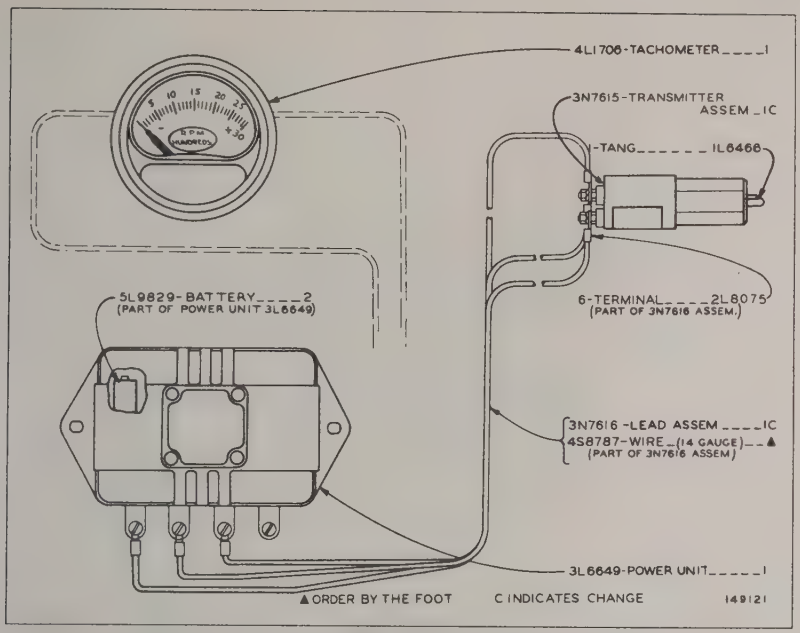

6L3641 EXHAUST FLANGE GROUP—12 Inch




5L3338 EXHAUST PIPE GROUP—8 Inch




4L2353 ELECTRIC TACHOMETER GROUP—Remote Mounted




4L2353 ELECTRIC TACHOMETER GROUP—Remote Mounted—Type 2

Consists of:

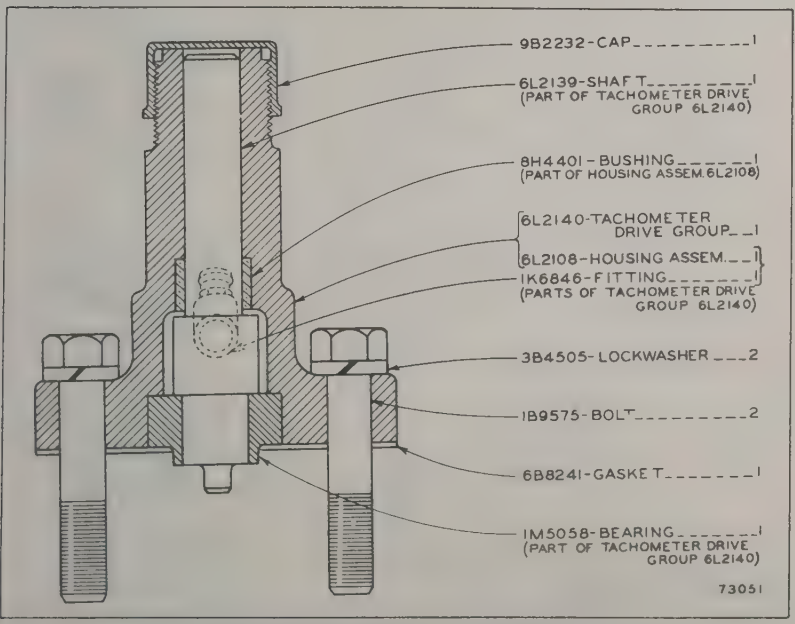
1 5L7434 Tachometer Assembly—12 Volt

— or —

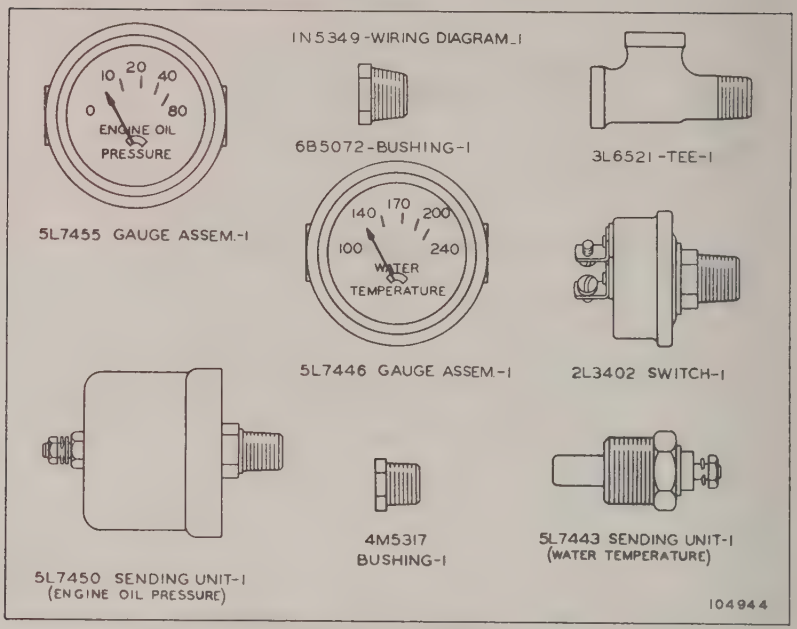
1 5L7445 Tachometer Assembly—24 Volt or 32 Volt

1 5L7452 Sending Unit Assembly

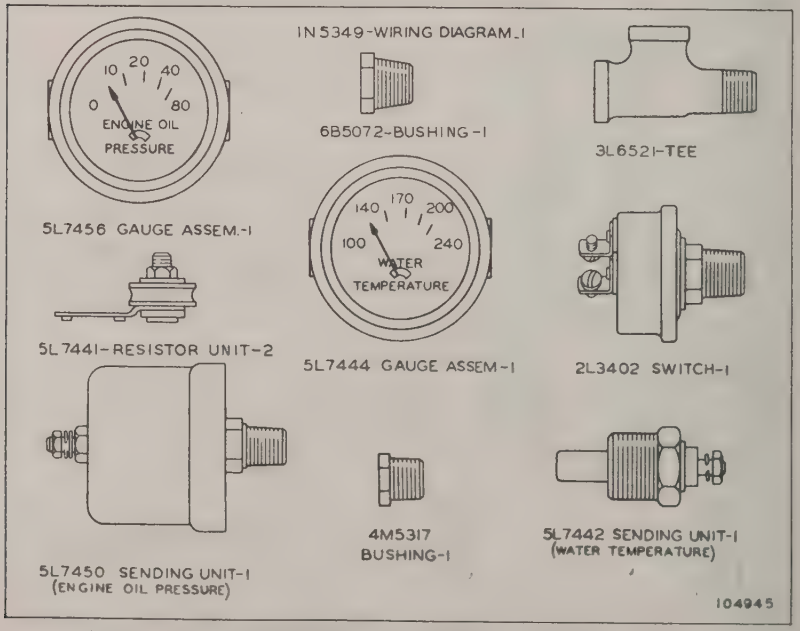
ELECTRIC TACHOMETERS




6L2211 TACHOMETER DRIVE GROUP




5L9894 INSTRUMENT GROUP—Electrical Instruments—12 Volt

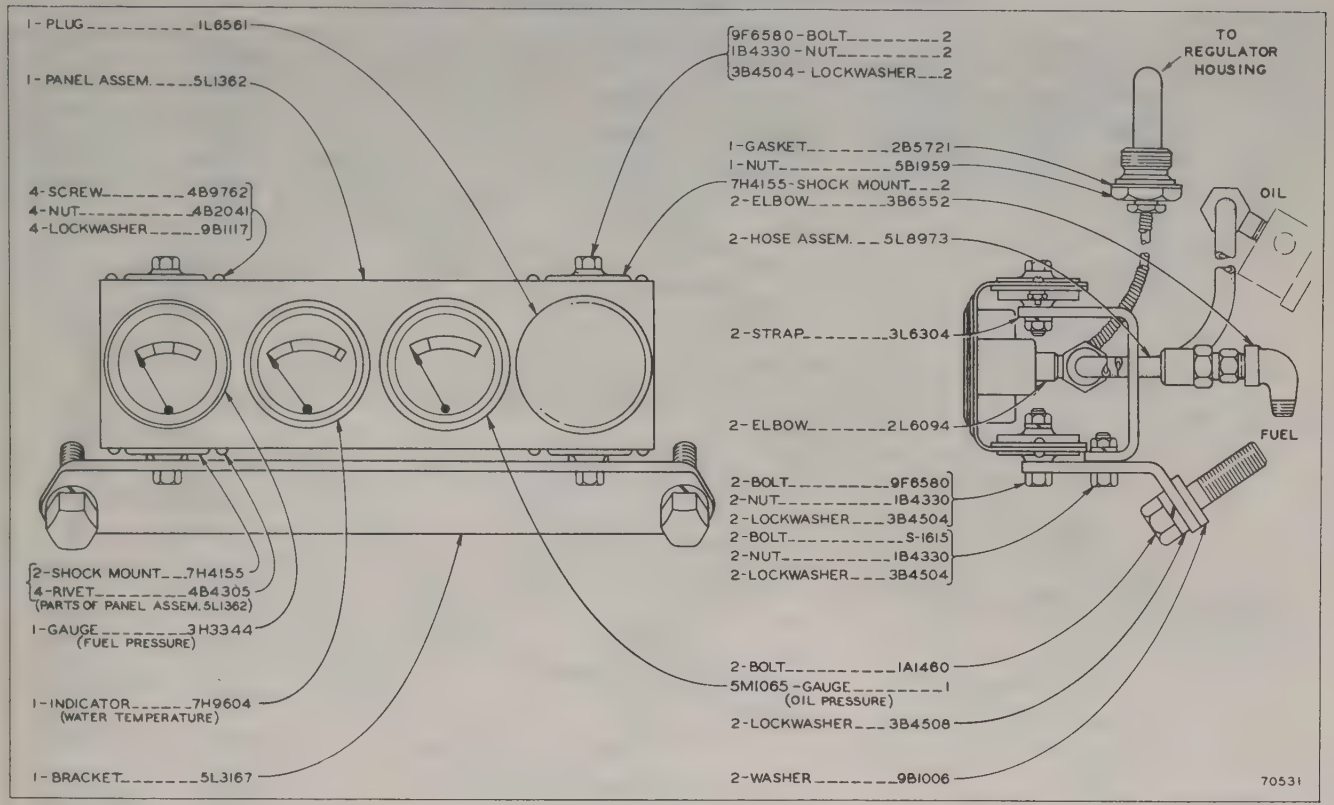


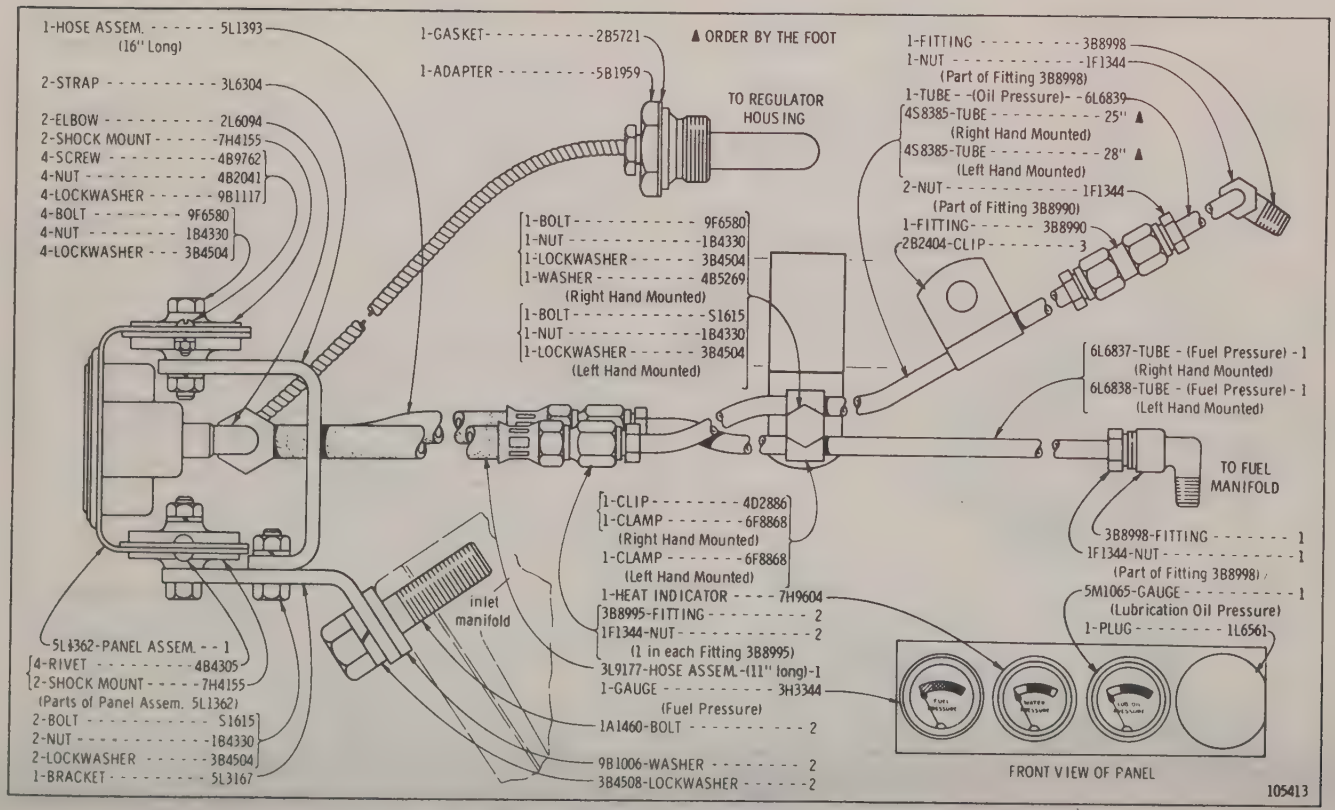

5L9895 INSTRUMENT GROUP—Electrical Instruments—24 Volt or 32 Volt

## 4L8747 INSTRUMENT AND PANEL MOUNTING GROUP—Mechanical Instruments

Serial No. 66B700—Up. Only separate parts serviced

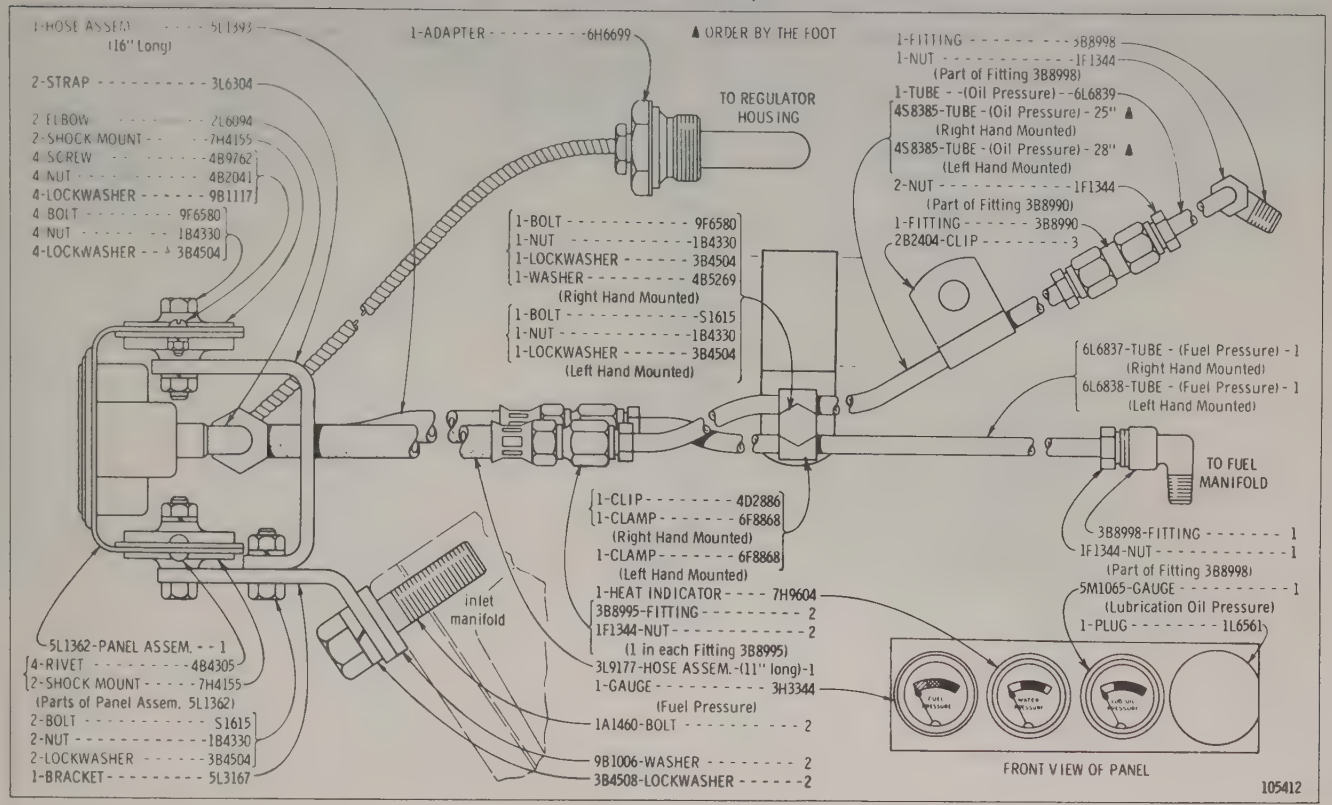
When complete Group is required order 6L6852 shown on page 138

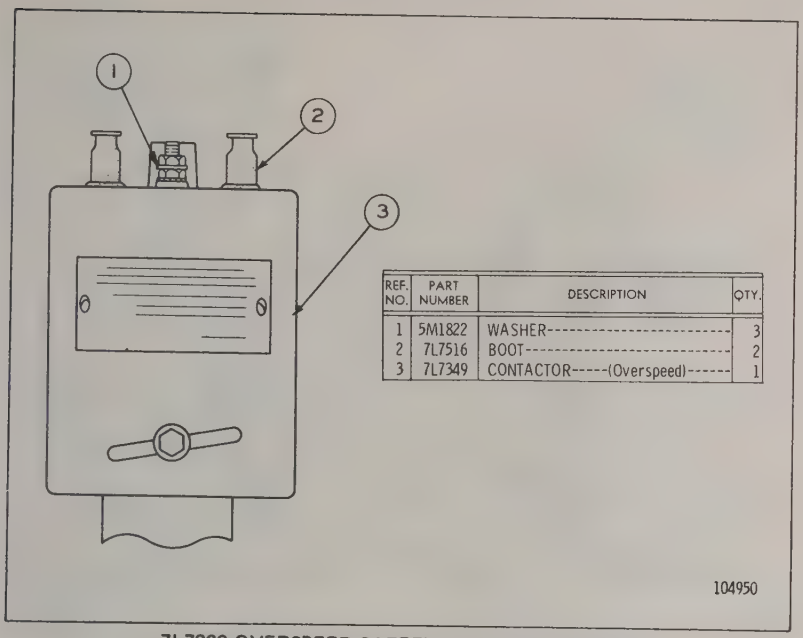





**6L6852 INSTRUMENT PANEL GROUP—Mechanical Instruments**
**Serial No. 66B700—Up**

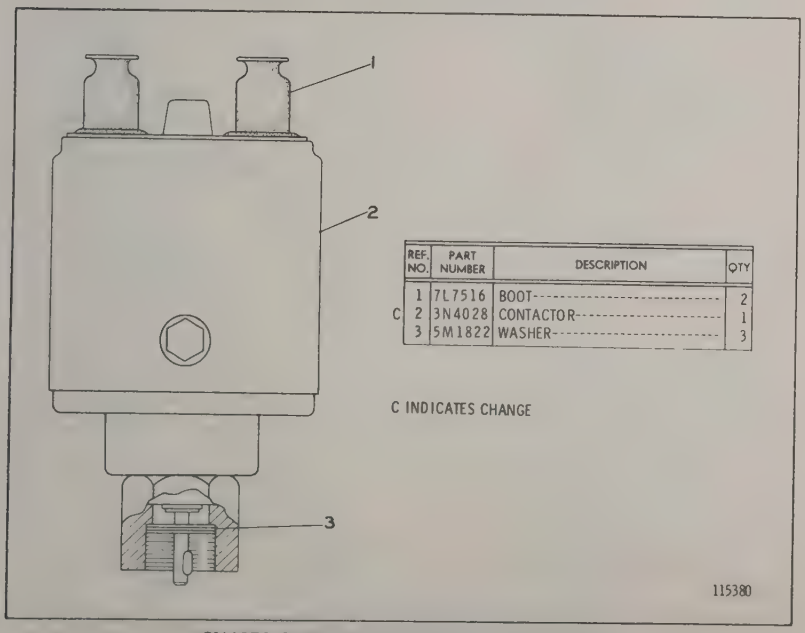
## 6L6852 INSTRUMENT PANEL GROUP—Mechanical Instruments
Serial No. 75B1—Up






| REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 5M1822 | WASHER | 3 |
| 2 | 7L7516 | BOOT | 2 |
| 3 | 7L7349 | CONTACTOR-----(Overspeed)------ | 1 |

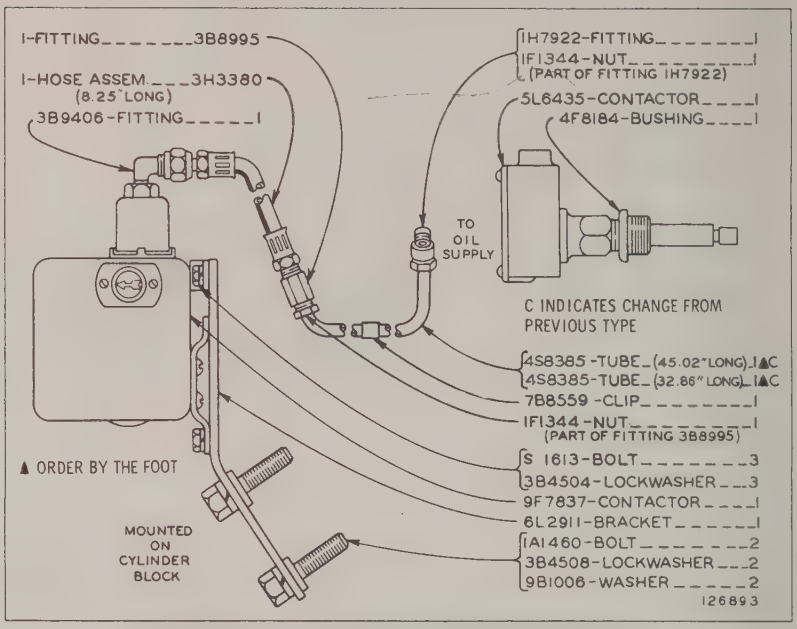
**7L7366 OVERSPEED SAFETY CONTACTOR GROUP**
**Serial No. 66B700—Up. Only separate parts serviced**
**When complete Group is required order 2N4673**



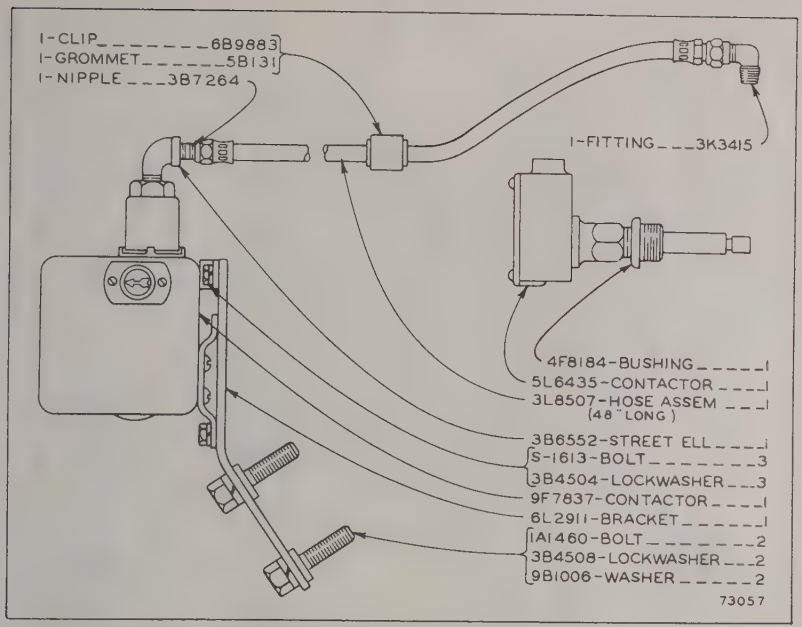

| | REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| | 1 | 7L7516 | BOOT | 2 |
| C | 2 | 3N4028 | CONTACTOR | 1 |
| | 3 | 5M1822 | WASHER | 3 |

C INDICATES CHANGE

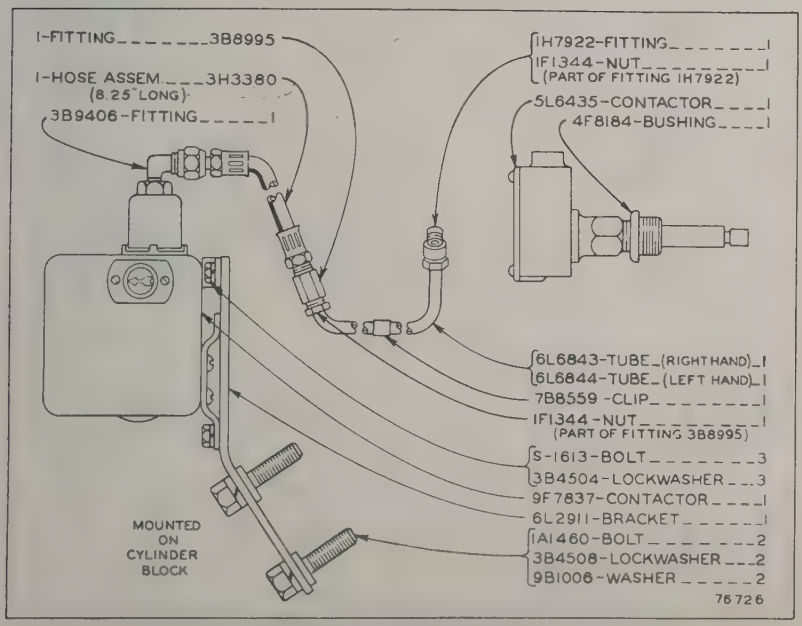
**2N4673 OVERSPEED CONTACTOR GROUP**
**Serial No. 66B700—Up**



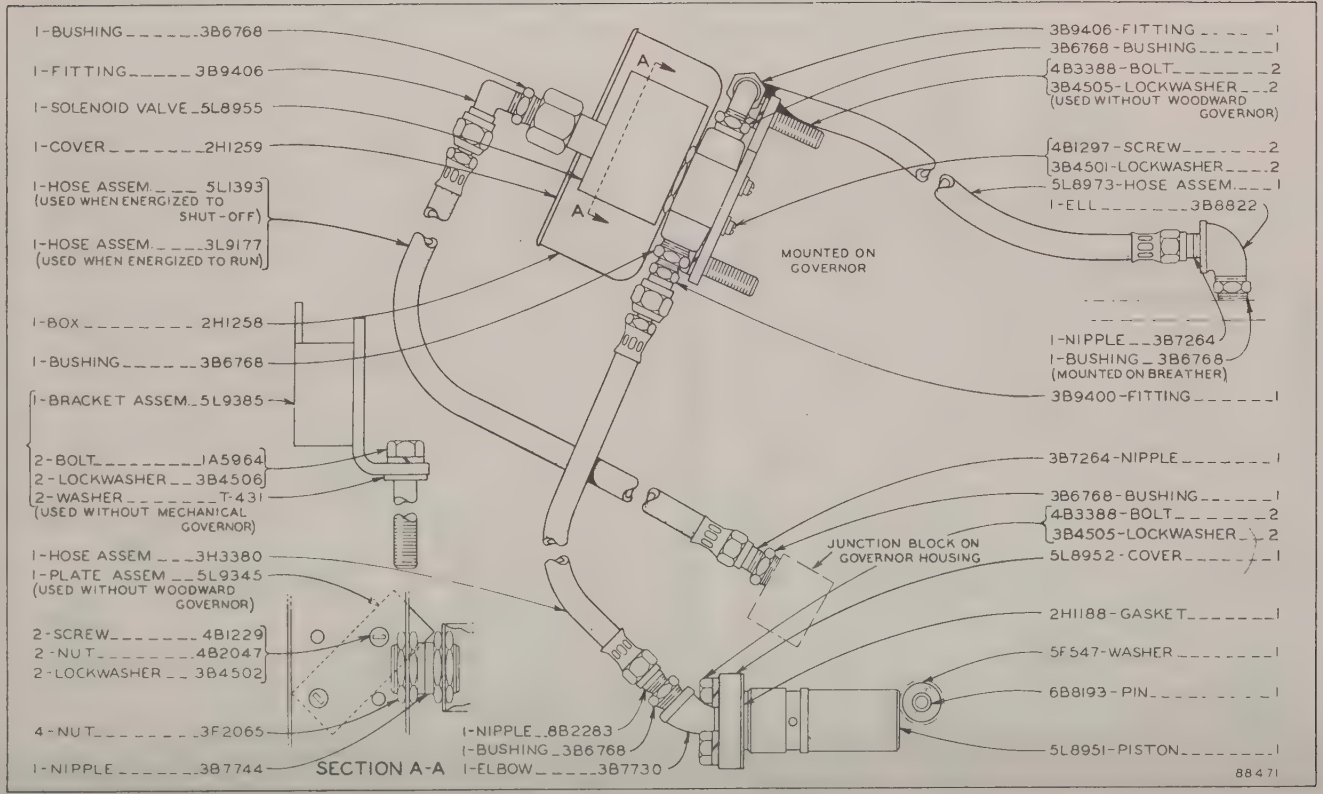

6L1631 SAFETY ALARM CONTACTOR GROUP—Type 3




6L1631 SAFETY ALARM CONTACTOR GROUP—First Type

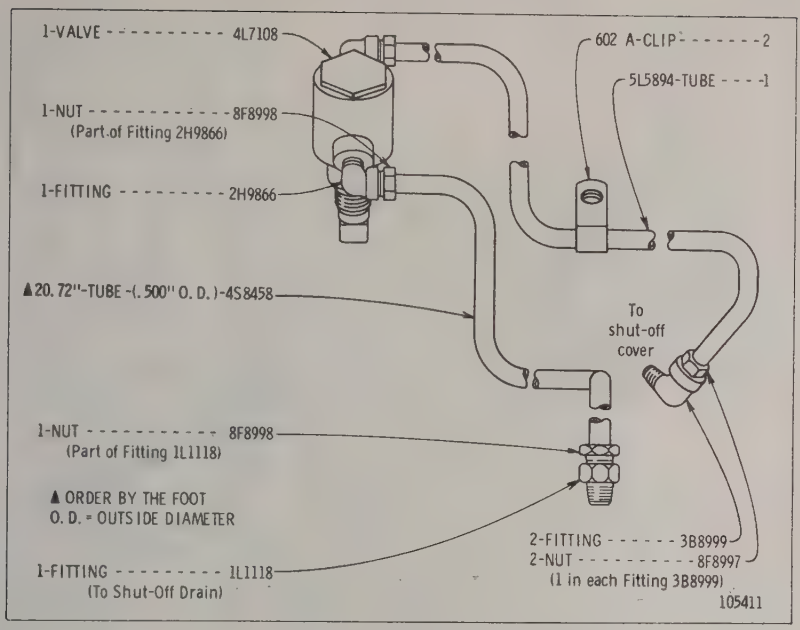



6L1631 SAFETY ALARM CONTACTOR GROUP—Second Type

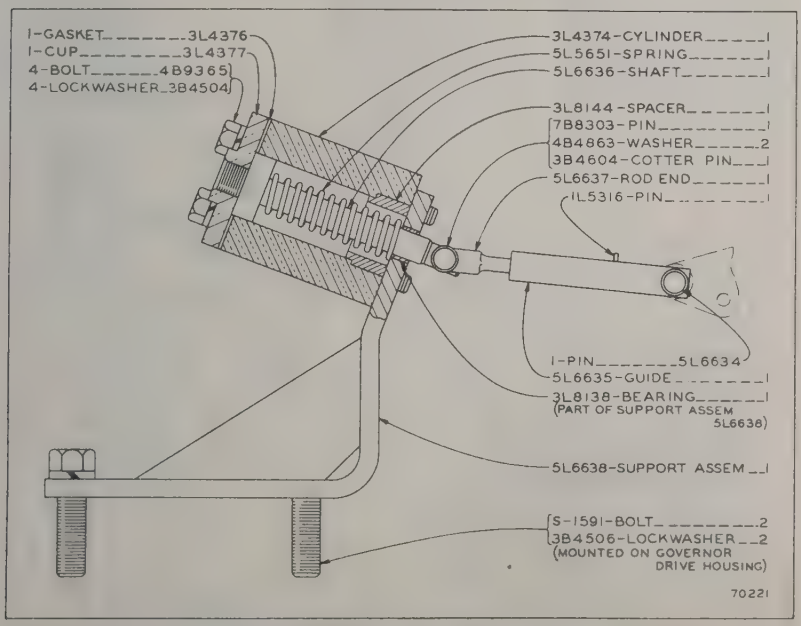



**5L8956 RACK SOLENOID SHUT-OFF GROUP—32 Volt**

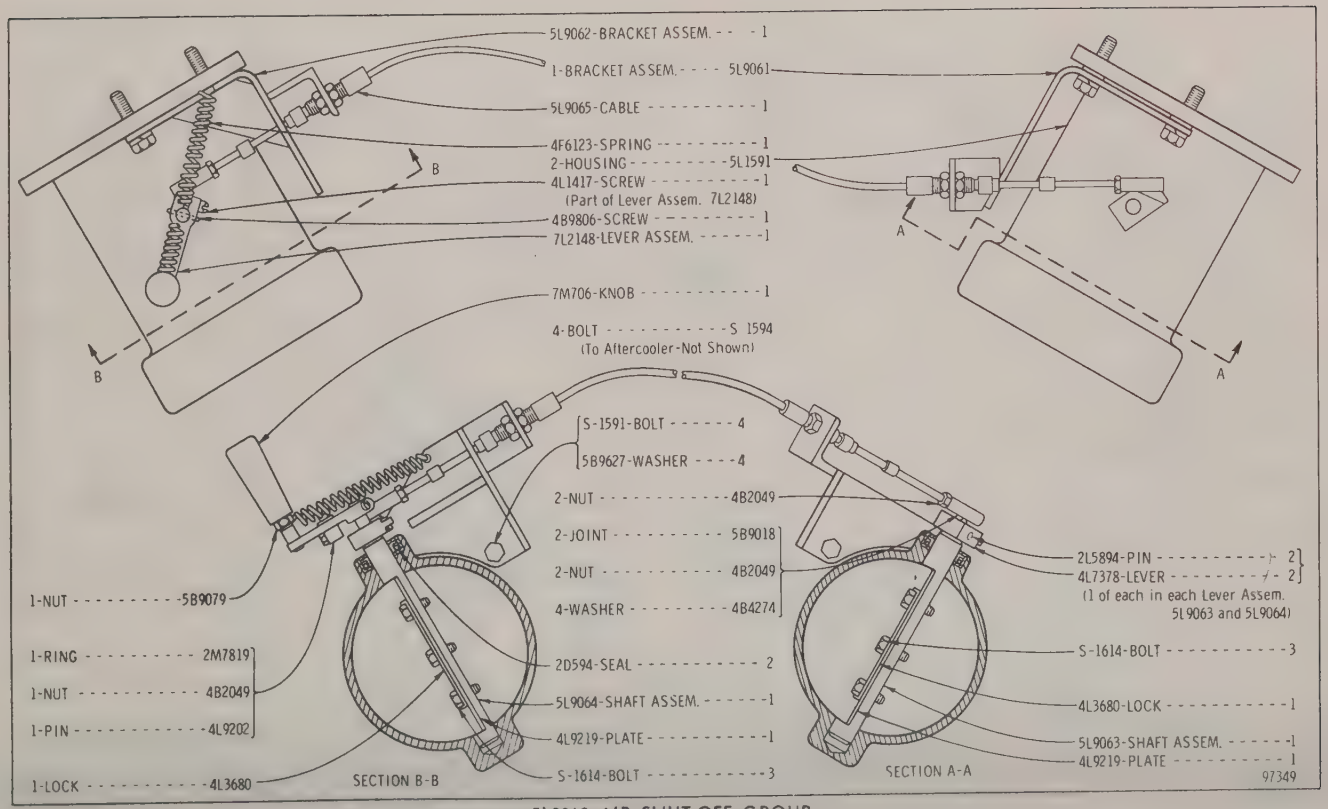
Also part of Automatic Start-Stop Arrangement listed on Page 107




5L5947 WATER TEMPERATURE SHUT-OFF GROUP

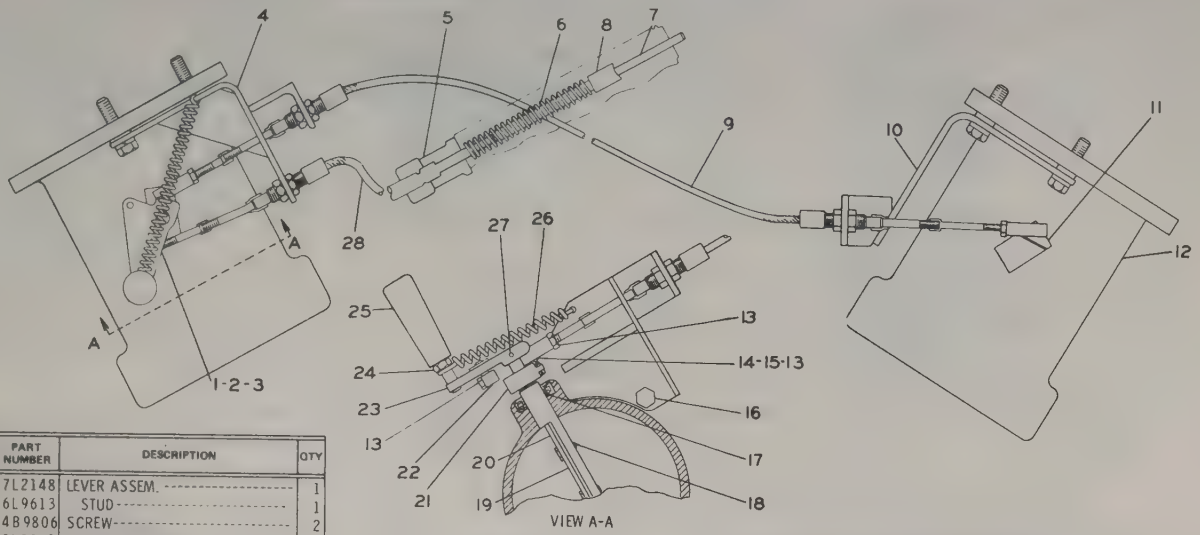



5L6639 RACK SHUT-OFF GROUP—Air Actuated




5L9060 AIR SHUT-OFF GROUP

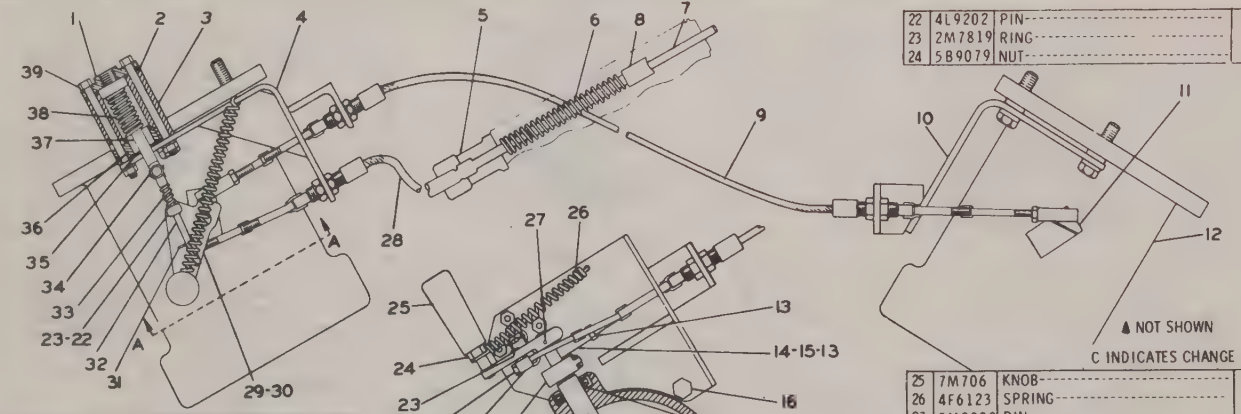
## 7L5536 SAFETY SHUT-OFF GROUP




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L2148 | LEVER ASSEM. | 1 |
| 2 | 6L9613 | STUD | 1 |
| 3 | 4B9806 | SCREW | 2 |
| 4 | 5L9062 | BRACKET ASSEM. | 1 |
| 5 | 3L8677 | ADAPTER | 1 |
| 6 | 5L5387 | SPRING | 1 |
| 7 | 5L2145 | ROD ASSEM. | 1 |
| 8 | 2L3474 | COLLAR | 1 |
| | 5H4792 | PIN | 1 |
| 9 | 7L7009 | CABLE ASSEM. | 1 |
| 10 | 5L9061 | BRACKET ASSEM. | 1 |
| 11 | 5L9063 | SHAFT ASSEM. | 1 |
| | 4L7378 | LEVER | 1 |
| | 2L5894 | PIN | 1 |
| 12 | 6L9815 | HOUSING | 2 |
| 13 | 4B2049 | NUT | 5 |
| 14 | 5B9018 | JOINT | 2 |
| 15 | 4B4274 | WASHER | 4 |
| 16 | S1591 | BOLT | 4 |
| | 5B9627 | WASHER | 4 |
| 17 | 4F4584 | SEAL | 2 |
| 18 | S1614 | BOLT | 6 |
| 19 | 2N3454 | PLATE ASSEM. | 2 |
| 20 | 4L3680 | LOCK | 2 |
| | 5L9064 | SHAFT ASSEM. | 1 |
| 21 | 4L7378 | LEVER | 1 |
| | 2L5894 | PIN | 1 |
| 22 | 4L9202 | PIN | 2 |
| 23 | 2M7819 | RING | 2 |
| 24 | 5B9079 | NUT | 1 |
| 25 | 7M706 | KNOB | 1 |
| 26 | 4F6123 | SPRING | 1 |
| 27 | 5M8009 | PIN | 1 |
| 28 | 3L5804 | CONTROL CABLE | 1 |
| ▲ | 3N538 | FILM | 1 |

▲ NOT SHOWN

138465




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3L4377 | CAP | 1 |
| 2 | 3L4376 | GASKET | 1 |
| 3 | 3L4374 | CYLINDER | 1 |
| 4 | 6L6549 | BRACKET ASSEM. | 1 |
| | 1L4099 | BUSHING | 1 |
| 5 | 3L8677 | ADAPTER | 1 |
| 6 | 5L5387 | SPRING | 1 |
| 7 | 5L2145 | ROD ASSEM. | 1 |
| 8 | 2L3474 | COLLAR | 1 |
| | 5H4792 | PIN | 1 |
| 9 | 7L7009 | CABLE ASSEM. | 1 |
| 10 | 5L9061 | BRACKET ASSEM. | 1 |
| | 5L9063 | SHAFT ASSEM. | 1 |
| 11 | 4L7378 | LEVER | 1 |
| | 2L5894 | PIN | 1 |
| 12 | 6L9815 | HOUSING | 2 |

| | | | |
|---|---|---|---|
| 13 | 4B2049 | NUT | 5 |
| 14 | 5B9018 | JOINT | 2 |
| 15 | 4B4274 | WASHER | 4 |
| 16 | S1591 | BOLT | 4 |
| | 5B9627 | WASHER | 4 |
| 17 | 4F4584 | SEAL | 2 |
| 18 | S1614 | BOLT | 6 |
| 19 | 2N3454 | PLATE ASSEM. | 2 |
| 20 | 4L3680 | LOCK | 2 |
| 21 | 5L9064 | SHAFT ASSEM. | 1 |
| | 4L7378 | LEVER | 1 |
| | 2L5894 | PIN | 1 |

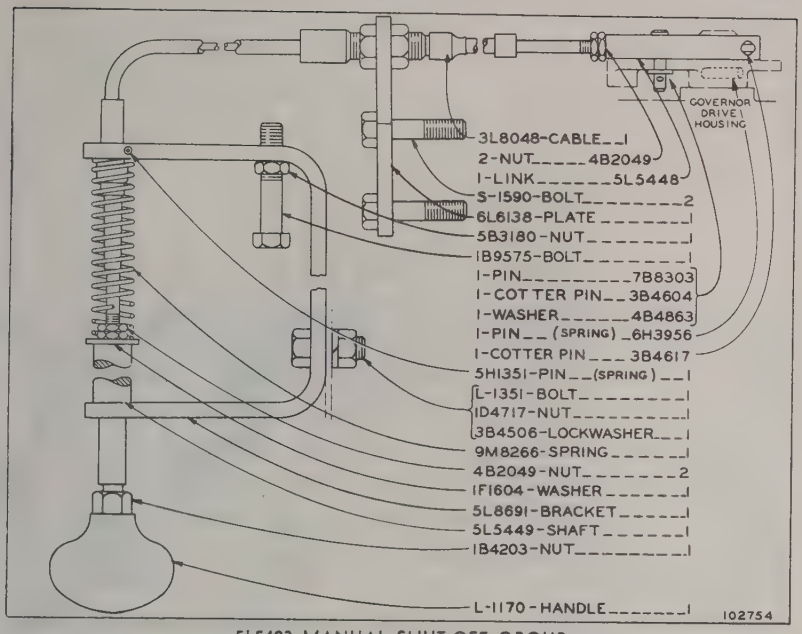
| | | | |
|---|---|---|---|
| 22 | 4L9202 | PIN | 2 |
| 23 | 2M7819 | RING | 2 |
| 24 | 5B9079 | NUT | 1 |

| | | | |
|---|---|---|---|
| 25 | 7M706 | KNOB | 1 |
| 26 | 4F6123 | SPRING | 1 |
| 27 | 5M8009 | PIN | 1 |
| 28 | 3L5804 | CONTROL CABLE | 1 |
| C 29 | 7L2148 | LEVER ASSEM. | 1 |
| | 5L9613 | STUD | 1 |
| 30 | 4B9806 | SCREW | 2 |
| 31 | 2L4911 | PIN | 1 |
| 32 | 5L6637 | ROD END | 1 |
| 33 | 2M5754 | SPRING | 1 |
| | 7B8303 | PIN | 1 |
| 34 | 4B4863 | WASHER | 1 |
| | 3B4604 | COTTER PIN | 1 |
| 35 | 7L7023 | WASHER | 1 |
| 36 | 7L7022 | SPACER | 1 |
| 37 | 5L6636 | SHAFT | 1 |
| 38 | 5L5651 | SPRING | 1 |
| 39 | 8F8178 | BOLT | 4 |
| | 1B4330 | NUT | 4 |
| | 3B4504 | LOCKWASHER | 4 |
| ▲ | 3N538 | FILM | 1 |

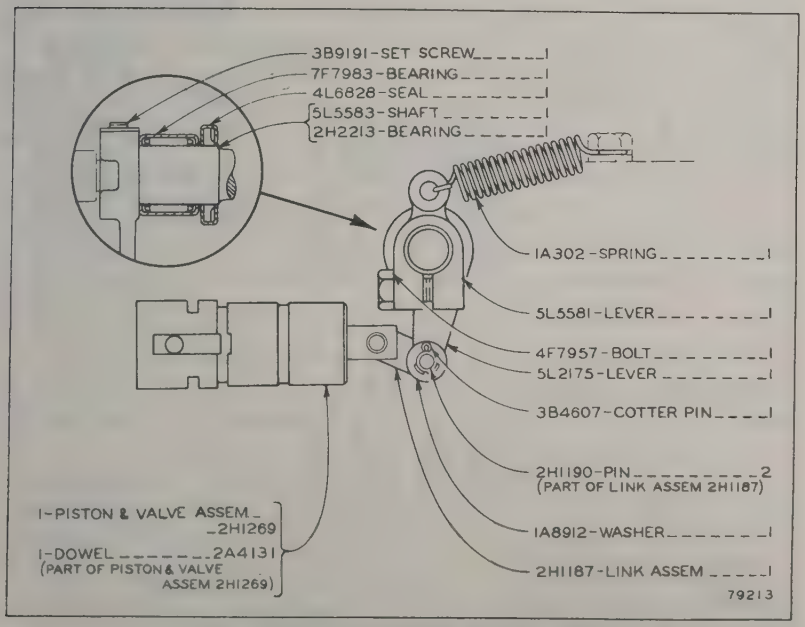
▲ NOT SHOWN
C INDICATES CHANGE

138432

2N9924 SAFETY SHUT-OFF GROUP




5L5493 MANUAL SHUT-OFF GROUP




5L2618 RACK LIMIT SERVO SHAFT GROUP
For use with Shut-off Controls

| PART NO. | DESCRIPTION | TYPE OF CONTROL | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | RIGHT HAND | | | | LEFT HAND | | | |
| | | POSITIVE LOCK | REMOTE CABLE | VERNIER | AIR ACTUATOR | POSITIVE LOCK | REMOTE CABLE | VERNIER | AIR ACTUATOR |
| 3L8869 | CONTROL GROUP | ■ | ■ | | ■ | ■ | ■ | | ■ |
| 4L6811 | LEVER GROUP | | ■ | ■ | | | ■ | ■ | |
| 4L7604 | HANDLE GROUP | | | ■ | | | | ■ | |
| 4L9581 | LINK GROUP | | | ■ | | | | ■ | |
| 2L6745 | ACTUATOR GROUP | | | | ■ | | | | ■ |
| 5L4061 | LINK ASSEMBLY | | | | ■ | | | | ■ |
| 1A302 | SPRING | | ■ | | | | ■ | | |
| 3L2777 | BRACKET | | ■ | | | | ■ | | |
| 4L9665 | BRACKET | | | ■ | | | | ■ | |
| 5L1170 | BRACKET ASSEMBLY | | | | ■ | | | | ■ |
| 5L1171 | LEVER | | | | ■ | | | | ■ |
| 6L8889 | LEVER EXTENSION | | | | ■ | | | | ■ |
| ——— | HARDWARE - LIST A | | ■ | ■ | | | ■ | ■ | |
| ——— | HARDWARE - LIST B | | | | ■ | | | | ■ |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

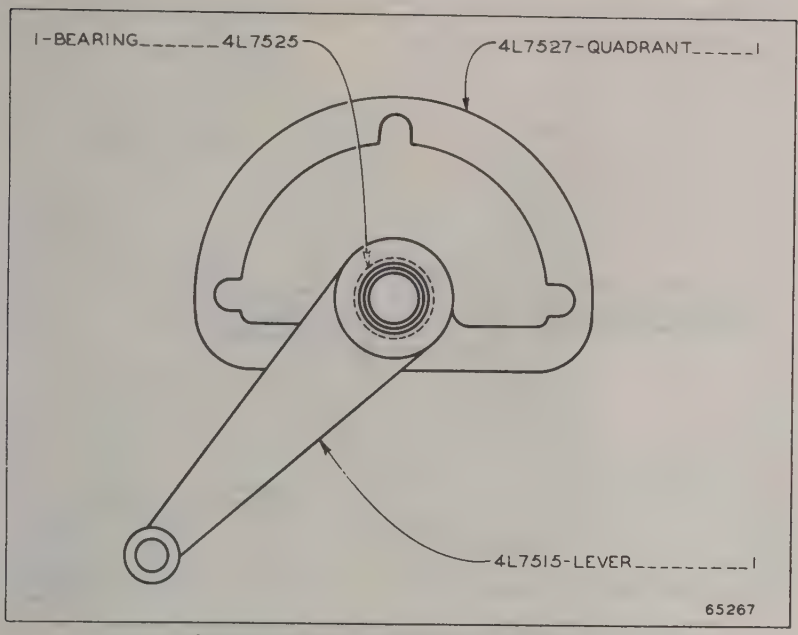
LIST A

2-2A762 BOLT 3/8'' X 5/8''
2-S-1618 BOLT 5/16'' X 1''
2-3B4504 LOCKWASHER 1/4''
2-3B4506 LOCKWASHER 5/16''
2-1D4716 NUT 5/16''

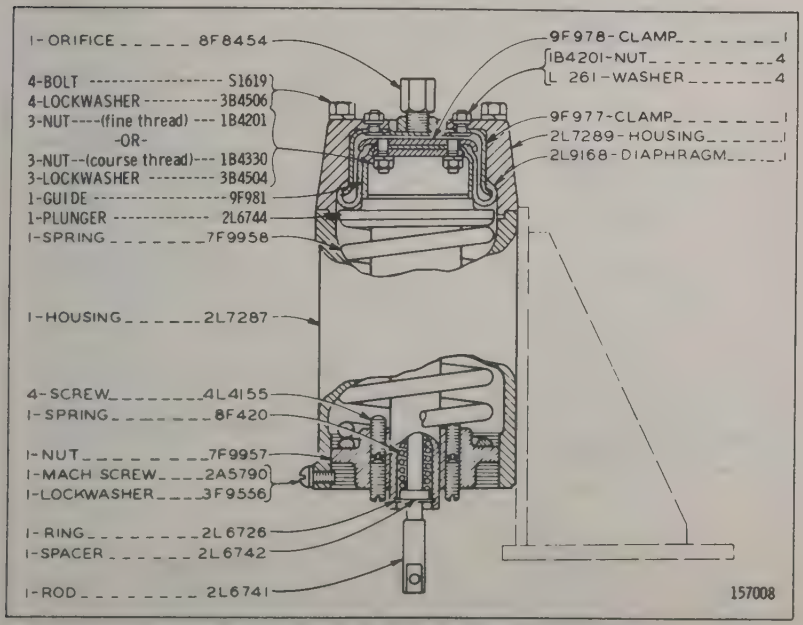
LIST B

1-4B3388 BOLT 5/16'' X 1 1/8''
4-L-1351 BOLT 3/8'' X 7/8''
3-S-1595 BOLT 1/2'' X 1 1/4''
1-S-1618 BOLT 5/16'' X 1''
2-L-1340 BOLT 1/4'' X 7/8''
2-3B4504 LOCKWASHER 1/4''
1-3B4505 LOCKWASHER 5/16''
4-3B4506 LOCKWASHER 3/8''
3-3B4508 LOCKWASHER 1/2''
3-4B4280 WASHER 17/32''
2-1B4201 NUT 1/4''
1-1A8285 NUT 5/16''
3-1D4719 NUT 1/2''
2-3B4607 COTTER 3/32'' X 1/2''
1-4L7513 ROD-GOVERNOR CONTROL
1-4F1001 END-YOKE
2-2A4133 PIN-YOKE END
1-INSTALLATION INSTRUCTION FORM 35921

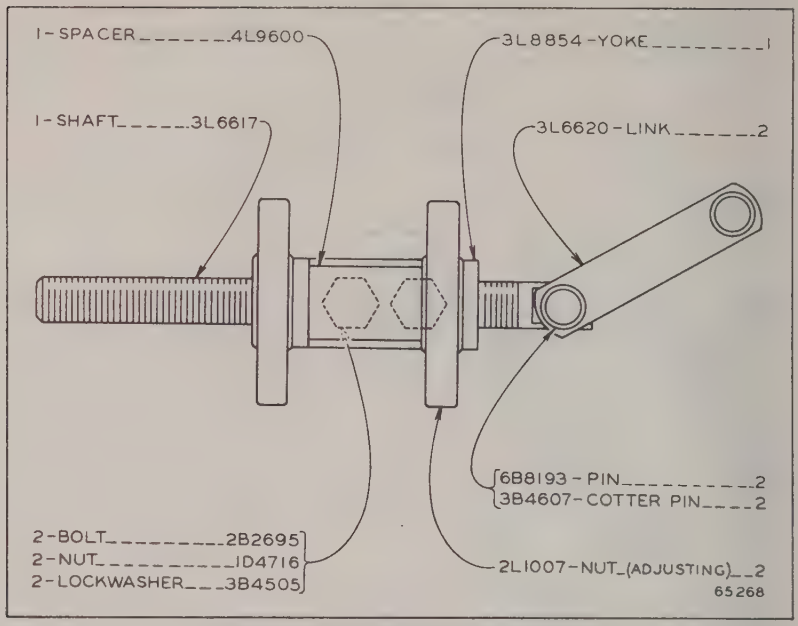
79372



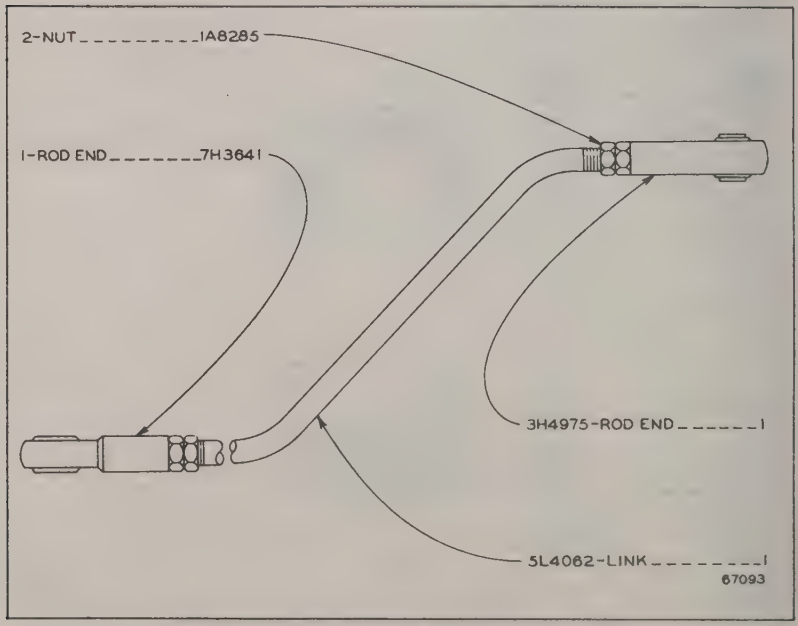

4L6811 GOVERNOR CONTROL LEVER GROUP
Refer to Page 144 for usage



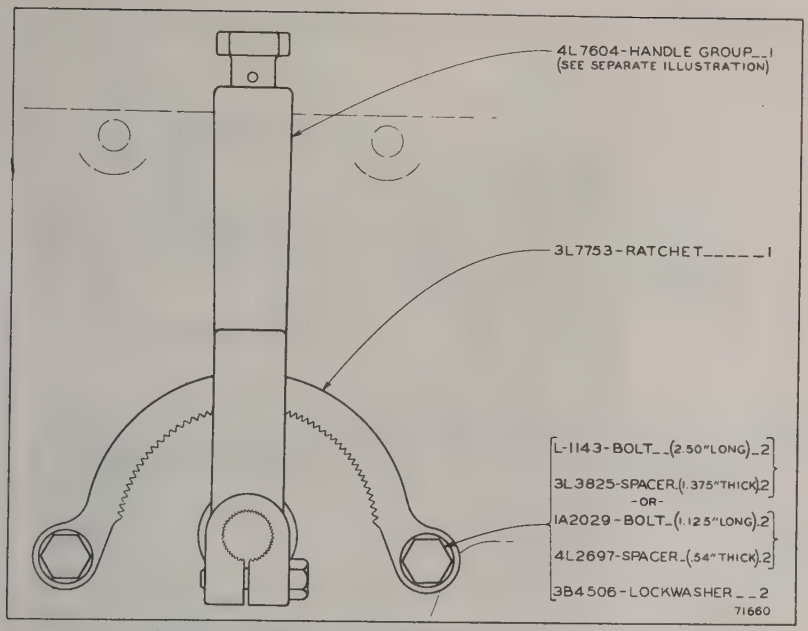

2L6745 GOVERNOR PNEUMATIC ACTUATOR GROUP
Refer to Page 144 for usage



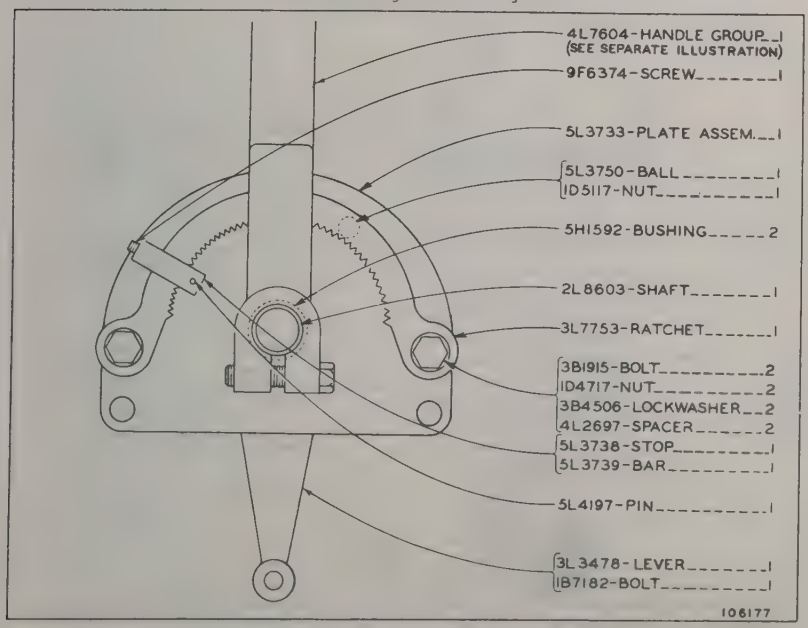

4L9581 VERNIER CONTROL LINK GROUP
Refer to Page 144 for usage



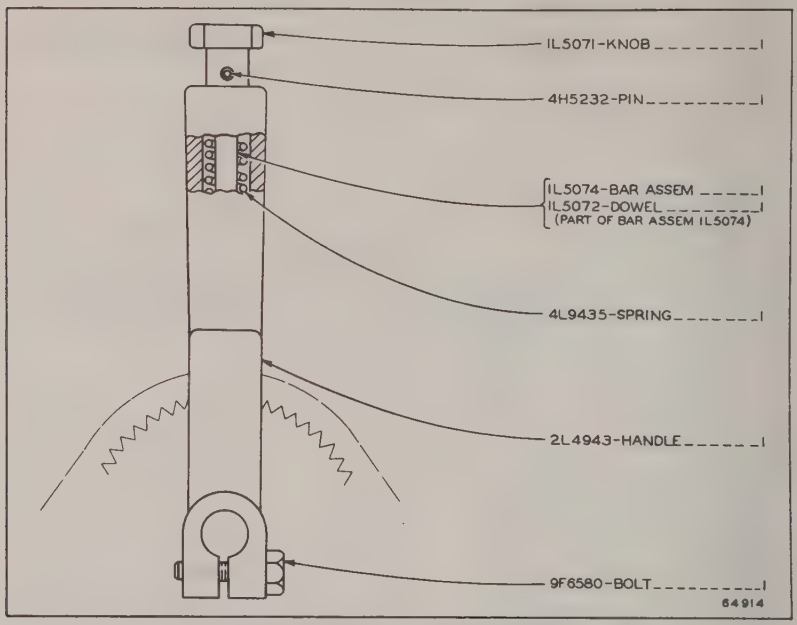

5L4061 GOVERNOR CONTROL LINK ASSEMBLY
Refer to Page 144 for usage




**3L8869 GOVERNOR CONTROL GROUP—Positive Locking**
4L7604 Control Handle Group parts are shown on Page 148
Refer to Page 144 for usage



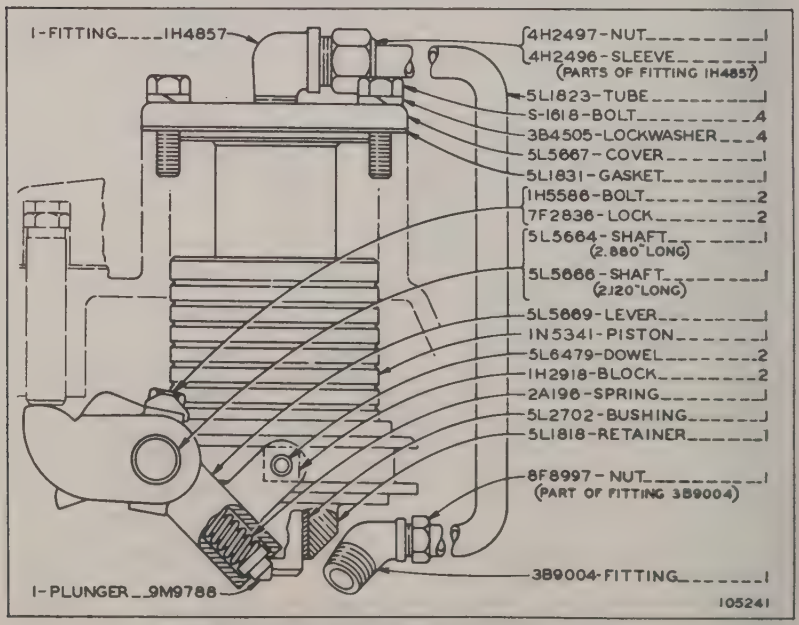

**5L3693 GOVERNOR CONTROL GROUP—Remote**
4L7604 Control Handle Group parts are shown on Page 148



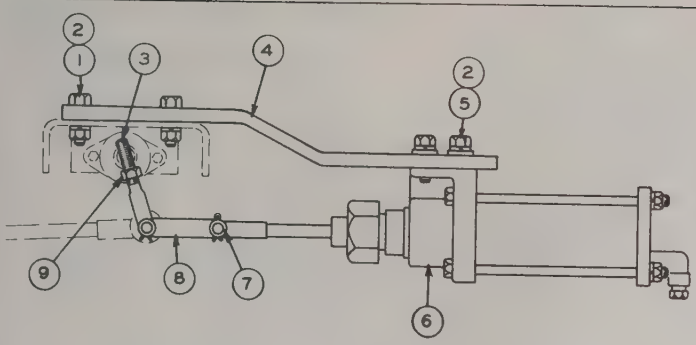

**4L7604 CONTROL HANDLE GROUP**

Part of 3L8869 and 5L3693 Governor Control Groups shown on Page 147

Refer to Page 144 for usage




5L1819 GOVERNOR CONTROL GROUP—Hydraulic

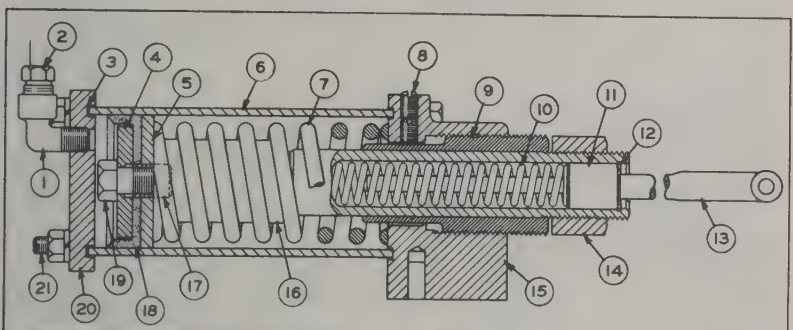



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2B2695 | BOLT | 2 |
| | 1D4716 | NUT | 2 |
| 2 | 3B4505 | LOCKWASHER | 5 |
| 3 | 7B5006 | ROD | 1 |
| 4 | 7L422 | STRAP | 1 |
| 5 | S-1617 | BOLT | 3 |
| | 4B4277 | WASHER | 3 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 6 | 7L135 | ACTUATOR ASSEM. (See Separate Illustration) | 1 |
| 7 | 7B8809 | PIN | 2 |
| | 3B4607 | COTTER PIN | 2 |
| 8 | 7L423 | LINK | 1 |
| 9 | 1B4427 | NUT | 1 |

104937

**7L903 AIR ACTUATED GOVERNOR CONTROL GROUP—Type 1**
Only separate parts serviced. When complete Group is required order 2N6030 shown on Page 148C

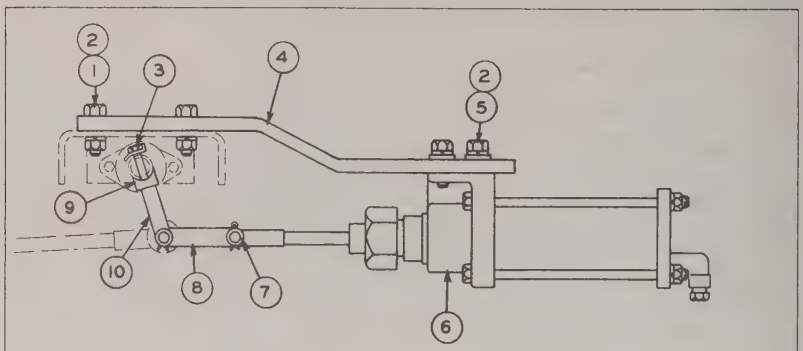



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6B9673 | FITTING | 1 |
| 2 | 1F1344 | NUT | 1 |
| | | (Part of 6B9673 Fitting) | |
| 3 | 7L127 | GASKET | 1 |
| 4 | 7L122 | PLATE | 1 |
| 5 | 7L120 | PLATE | 1 |
| 6 | 7L131 | TUBE | 1 |
| 7 | 7L128 | SPRING | 1 |
| 8 | 4B3629 | SET SCREW | 2 |
| 9 | 7L126 | STOP | 1 |
| 10 | 7L129 | SPRING | 1 |
| 11 | 7L123 | SPACER | 1 |
| 12 | 1H4142 | RING | 1 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 13 | 7L124 | ROD ASSEM. | 1 |
| 14 | 2K7471 | NUT | 1 |
| 15 | 7L134 | COVER | 1 |
| 16 | 7L413 | PLUNGER ASSEM. | 1 |
| 17 | 8M8489 | DOWEL (Part of 7L413 Plunger Assem.) | 1 |
| 18 | 7L121 | CUP | 1 |
| 19 | 2J3118 | BOLT | 1 |
| 20 | 7L130 | PLATE | 1 |
| | 1B2718 | BOLT | 4 |
| 21 | 1B4330 | NUT | 4 |
| | 3B4504 | LOCKWASHER | 4 |

127179

**7L135 AIR ACTUATOR ASSEMBLY—Type 1**
Part of 7L903 Air Actuated Governor Control Group



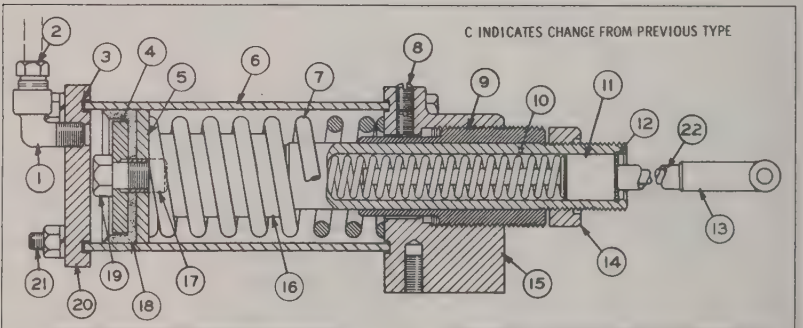

| | REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| | 1 | 2B2695 | BOLT | 2 |
| | | 1D4716 | NUT | 2 |
| | 2 | 3B4505 | LOCKWASHER | 5 |
| C | 3 | 5F4475 | BOLT | 1 |
| | | 2F4159 | LOCK | 1 |
| | 4 | 7L422 | STRAP | 1 |
| | 5 | S1617 | BOLT | 3 |
| | | 4B4277 | WASHER | 3 |

C INDICATES CHANGE FROM PREVIOUS TYPE

| | REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| | 6 | 7L135 | ACTUATOR ASSEM. (See Separate Illustration) | 1 |
| | 7 | 7B8809 | PIN | 2 |
| | | 3B4607 | COTTER PIN | 2 |
| | 8 | 7L423 | LINK | 1 |
| C | 9 | 2N3915 | SPACER | 1 |
| C | 10 | 7B5005 | ROD END | 1 |

127124

**7L903 AIR ACTUATED GOVERNOR CONTROL GROUP—Type 2**
Only separate parts serviced. When complete Group is required order 2N6030

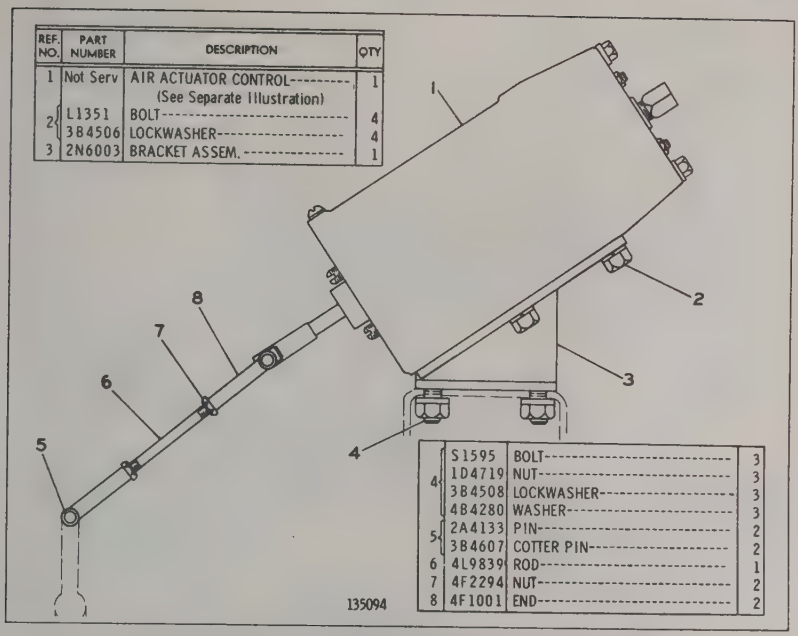



| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6B9673 | FITTING | 1 |
| 2 | 1F1344 | NUT | 1 |
| | | (Part of 6B9673 Fitting) | |
| 3 | 7L127 | GASKET | 1 |
| 4 | 7L122 | PLATE | 1 |
| 5 | 7L120 | PLATE | 1 |
| 6 | 7L131 | TUBE | 1 |
| 7 | 7L128 | SPRING | 1 |
| 8 | 4B3629 | SET SCREW | 2 |
| 9 | 7L126 | STOP | 1 |
| 10 | 7L129 | SPRING | 1 |
| 11 | 7L123 | SPACER | 1 |
| 12 | 1H4142 | RING | 1 |

| | REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| C | 13 | 2N3917 | ROD ASSEM. | 1 |
| C | 14 | 7J6163 | NUT | 1 |
| | 15 | 7L134 | COVER | 1 |
| | 16 | 7L413 | PLUNGER ASSEM. | 1 |
| | 17 | 8M8489 | DOWEL (Part of 7L413 Plunger Assem.) | 1 |
| | 18 | 7L121 | CUP | 1 |
| | 19 | 2J3118 | BOLT | 1 |
| | 20 | 7L130 | PLATE | 1 |
| | | 1B2718 | BOLT | 4 |
| | 21 | 1B4330 | NUT | 4 |
| | | 3B4504 | LOCKWASHER | 4 |
| C | 22 | 1Y270 | TUBE | 1 |

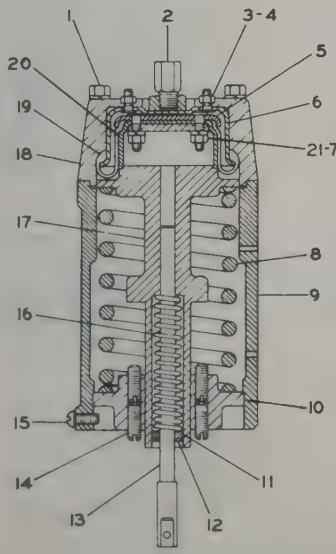
127125

**7L135 AIR ACTUATOR ASSEMBLY—Type 2**
Part of 7L903 Air Actuated Governor Control Group




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | Not Serv | AIR ACTUATOR CONTROL---------- (See Separate Illustration) | 1 |
| 2 | L1351 | BOLT---------- | 4 |
| | 3B4506 | LOCKWASHER---------- | 4 |
| 3 | 2N6003 | BRACKET ASSEM.---------- | 1 |
| 4 | S1595 | BOLT---------- | 3 |
| | 1D4719 | NUT---------- | 3 |
| | 3B4508 | LOCKWASHER---------- | 3 |
| | 4B4280 | WASHER---------- | 3 |
| 5 | 2A4133 | PIN---------- | 2 |
| | 3B4607 | COTTER PIN---------- | 2 |
| 6 | 4L9839 | ROD---------- | 1 |
| 7 | 4F2294 | NUT---------- | 2 |
| 8 | 4F1001 | END---------- | 2 |

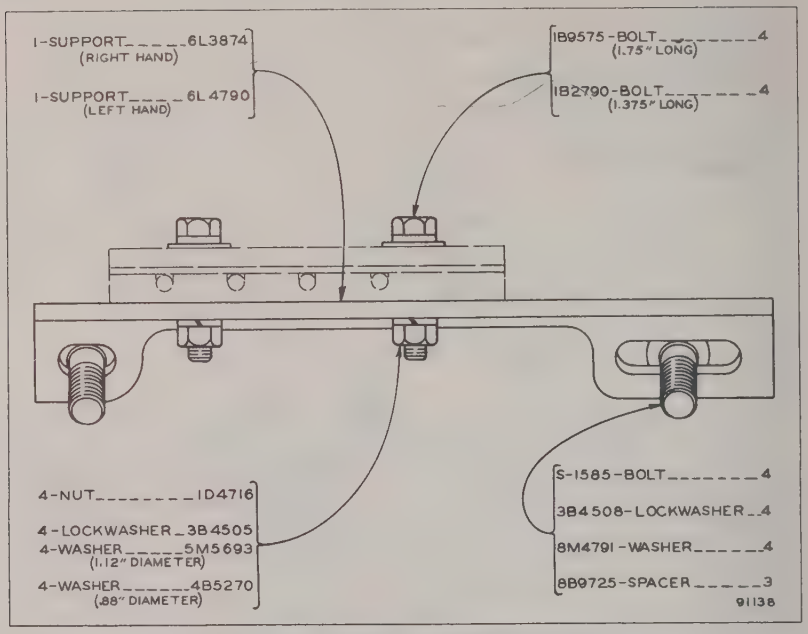
2N6030 AIR ACTUATED GOVERNOR CONTROL GROUP



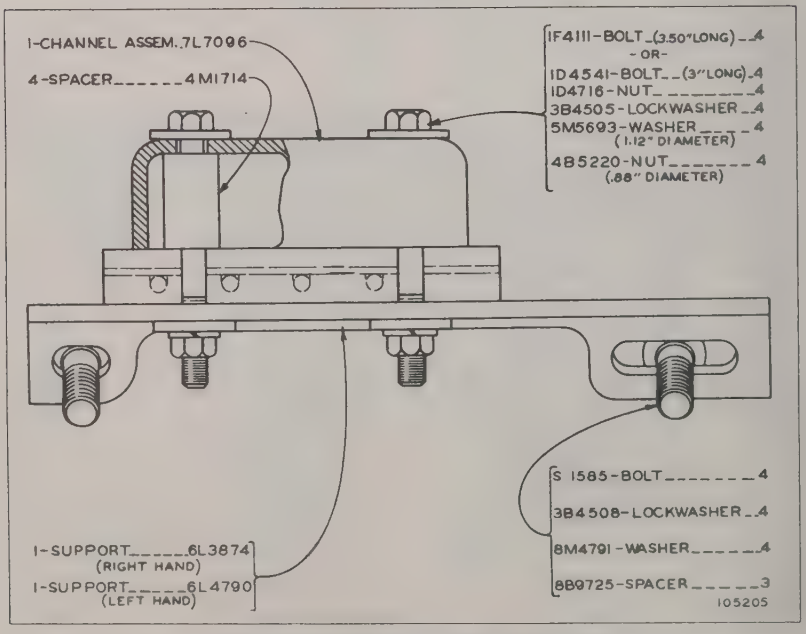

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | S1619 | BOLT---------- | 4 |
| | 3B4506 | LOCKWASHER---------- | 4 |
| 2 | 8F8454 | ORFICE---------- | 1 |
| 3 | 1B4201 | NUT---------- | 4 |
| 4 | L261 | WASHER---------- | 4 |
| 5 | 9F978 | CLAMP ASSEM.---------- | 1 |
| 6 | 9F977 | CLAMP ASSEM.---------- | 1 |
| 7 | 3B4504 | LOCKWASHER---------- | 3 |
| 8 | 7F9958 | SPRING---------- | 1 |
| 9 | 2L7287 | HOUSING---------- | 1 |
| 10 | 7F9957 | NUT---------- | 1 |
| 11 | 2L6742 | SPACER---------- | 1 |
| 12 | 2L6726 | RING---------- | 1 |
| 13 | 2N6004 | ROD---------- | 1 |
| 14 | 4L4155 | SCREW---------- | 4 |
| 15 | 2A5790 | SCREW---------- | 1 |
| | 3F9556 | LOCKWASHER---------- | 1 |
| 16 | 2N6005 | SPRING---------- | 1 |
| 17 | 2L6744 | PLUNGER---------- | 1 |
| 18 | 2L7289 | HOUSING---------- | 1 |
| 19 | 2L9168 | DIAPHRAGM---------- | 1 |
| 20 | 9F981 | GUIDE---------- | 1 |
| 21 | 1B4201 | NUT----------(fine thread)---------- | 3 |
| | | -OR- | |
| C | 1B4330 | NUT----------(coarse thread)---------- | 3 |

C INDICATES CHANGE 156877

AIR ACTUATOR CONTROL (2N6006 N/S)
Part of 2N6030 Air Actuated Governor Control Group shown on Page 148C



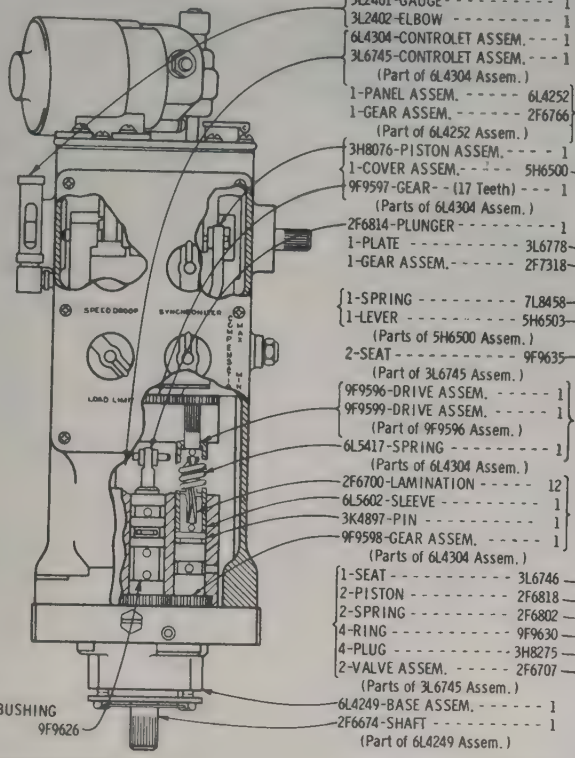

FUEL LINE SUPPORT (5L4936 N/S)—Type 1
Serial No. 66B700—Up. FOR USE WITH 5L4936 WOODWARD GOVERNOR GROUP
SHOWN ON PAGES 148F and 149

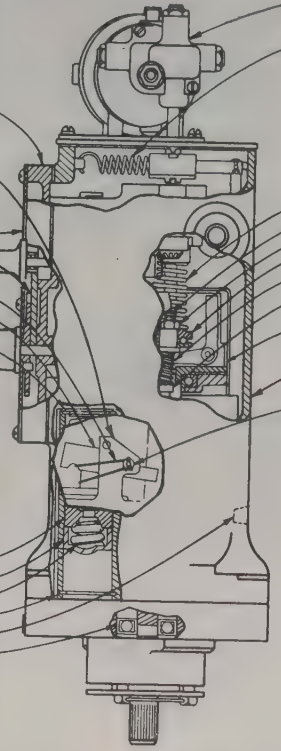



FUEL LINE SUPPORT (5L4936 N/S)—Type 2
Serial No. 66B700—Up. FOR USE WITH 5L4936 WOODWARD GOVERNOR GROUP
SHOWN ON PAGES 148F and 149

## 8L8919 WOODWARD GOVERNOR GROUP

Part of 5L4936 Woodward Governor Group shown on Page 149



- 3L2401-GAUGE - - - - - - - - - - 1
- 3L2402-ELBOW - - - - - - - - - - 1
- 6L4304-CONTROLET ASSEM. - - - 1
- 3L6745-CONTROLET ASSEM. - - - 1

(Part of 6L4304 Assem.)

- 1-PANEL ASSEM. - - - - - 6L4252
- 1-GEAR ASSEM. - - - - - - 2F6766

(Part of 6L4252 Assem.)

- 3H8076-PISTON ASSEM. - - - - 1
- 1-COVER ASSEM. - - - - - 5H6500
- 9F9597-GEAR - - (17 Teeth) - - - 1

(Parts of 6L4304 Assem.)

- 2F6814-PLUNGER - - - - - - - - - 1
- 1-PLATE - - - - - - - - - - 3L6778
- 1-GEAR ASSEM. - - - - - - 2F7318

- 1-SPRING - - - - - - - - - - 7L8458
- 1-LEVER - - - - - - - - - - 5H6503

(Parts of 5H6500 Assem.)

- 2-SEAT - - - - - - - - - - - 9F9635

(Part of 3L6745 Assem.)

- 9F9596-DRIVE ASSEM. - - - - - - 1
- 9F9599-DRIVE ASSEM. - - - - - 1

(Part of 9F9596 Assem.)

- 6L5417-SPRING - - - - - - - - - 1

(Parts of 6L4304 Assem.)

- 2F6700-LAMINATION - - - - - 12
- 6L5602-SLEEVE - - - - - - - - - - 1
- 3K4897-PIN - - - - - - - - - - - 1
- 9F9598-GEAR ASSEM. - - - - - 1

(Parts of 6L4304 Assem.)

- 1-SEAT - - - - - - - - - - - 3L6746
- 2-PISTON - - - - - - - - - - 2F6818
- 2-SPRING - - - - - - - - - - 2F6802
- 4-RING - - - - - - - - - - - - 9F9630
- 4-PLUG - - - - - - - - - - - 3H8275
- 2-VALVE ASSEM. - - - - - 2F6707

(Parts of 3L6745 Assem.)

- 6L4249-BASE ASSEM. - - - - - - 1
- 2F6674-SHAFT - - - - - - - - - - 1

(Part of 6L4249 Assem.)

1-BUSHING 9F9626

- 6L4251-COVER AND MOTOR ASSEM. - - 1
- 2F6761-SPRING - - - - - - - - - 1

- 3N3366-SPRING ASSEM. - - - - 1
- 5H6475-ROD ASSEM. - - - - - - 1
- 5H6477-NUT - - - - - - - - - - - 1
- 2F6686-BEARING - - - - - - - - 1
- 2F6689-SPRING - - - - - - - - 1
- 5H6476-ROD & PIN ASSEM. - - - 1

(Parts of 5H6475 Assem.)

- 3N3685-BALLHEAD ASSEM. - - - 1

- 3N3367-CASE ASSEM. - - - - - 1
- 2N1922-PIN - - - - - - - - - - - 1
- 4B4863-WASHER - - - - - - - - - 1
- 2F6713-COTTER PIN - - - - - - - 1

(Parts of 5H6500 Assem.)

THE FOLLOWING REPAIR KITS ARE AVAILABLE:

- 6L3629-KIT - - - (Hardware) - - - 1

(Includes Pointers, Pins, Rings, Laminations, Washers, Nuts, "O"-Rings, Lockwashers, Seals, Cotter Pins, Lockwire and Screws)

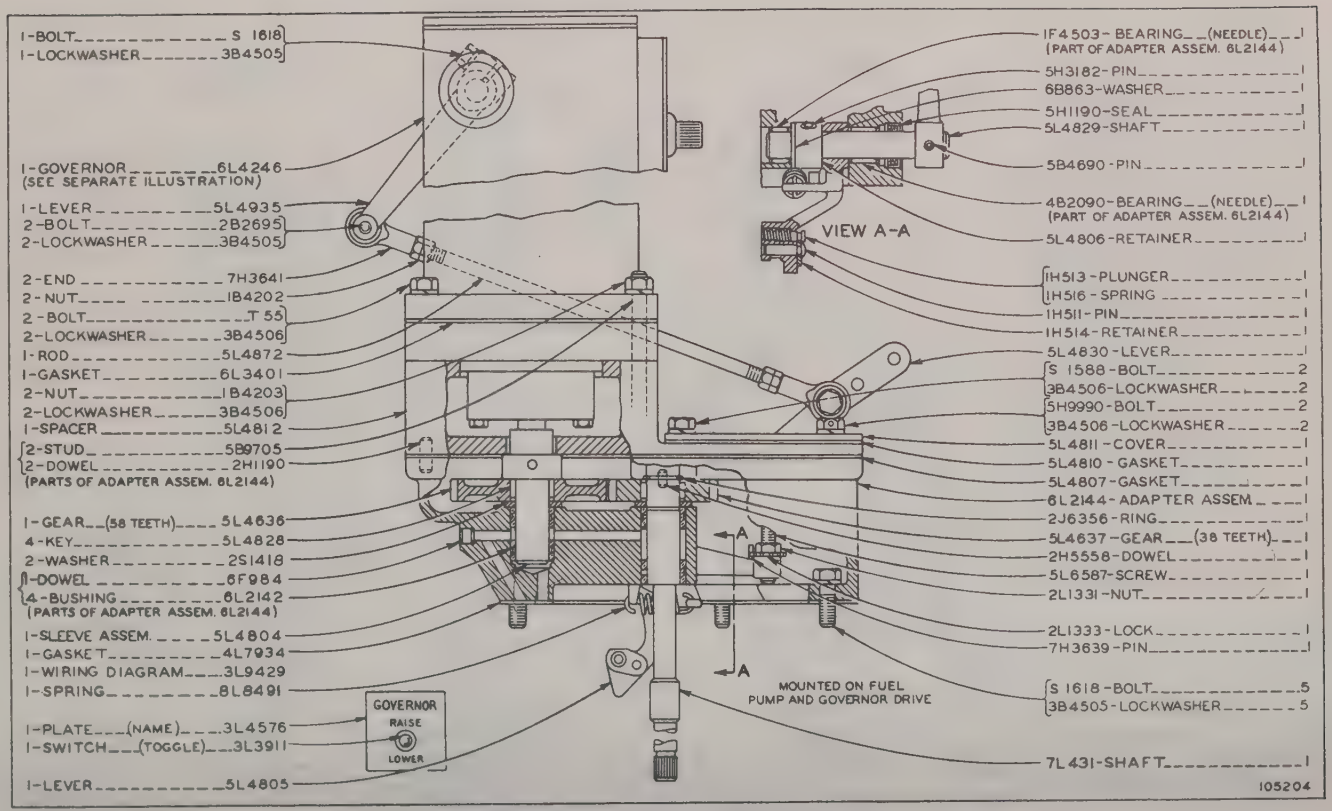
- 6L4227-KIT - - - - (Gasket) - - - - 1

(Includes Gaskets)

- 6L4299-KIT - - - - (Repair) - - - - 1

(Includes Valve Assemblies, Pins, Plugs, Bearings, Springs, Studs, Cover Assembly, Pistons, Knobs, Ring, Set Screws, Washer and Seat)

136897




5L4936 WOODWARD GOVERNOR GROUP—Type 1

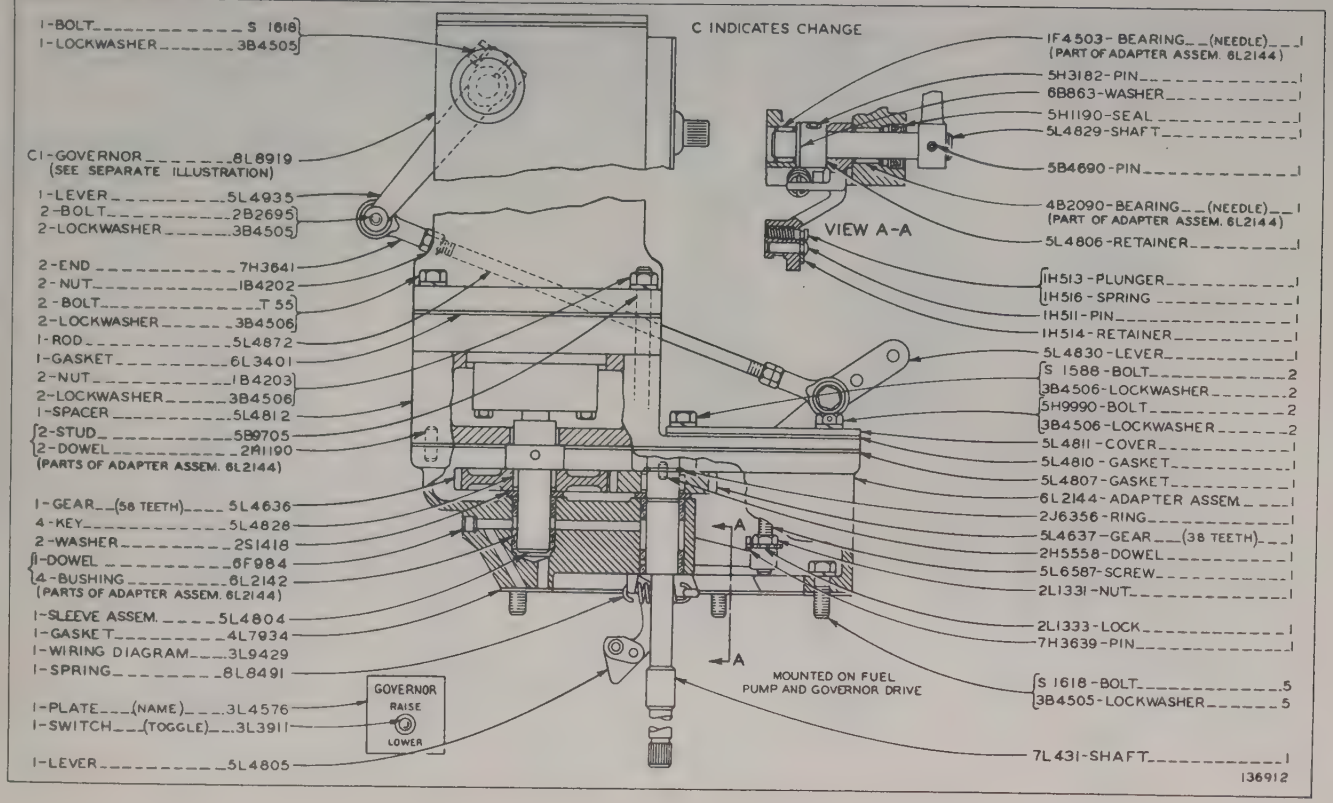
Also Part of 8L4476 Woodward Governor Arrangement listed on Page 150

6L4246 Governor parts are shown on Page 151

## 5L4936 WOODWARD GOVERNOR GROUP—Type 2

Also part of 8L4476 Woodward Governor Arrangement listed on Page 150

8L8919 Governor parts are shown on Page 148E



| | | Consists of: | Page |
|---|---|---|---|
| 1 | 5L4936 | Woodward Governor Group ..... | 148F |
| 12 | 1S2080 | Nozzle Assembly | |

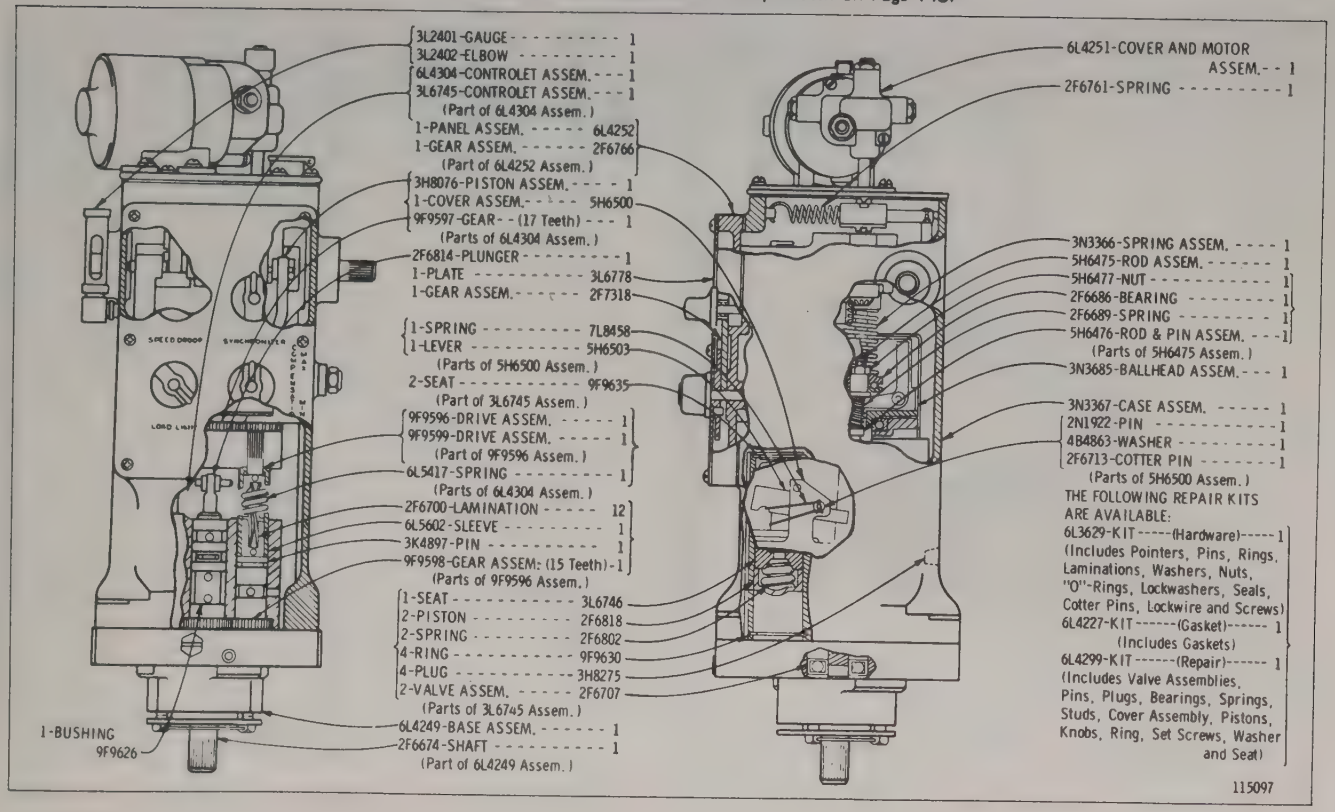
8L4476 WOODWARD GOVERNOR ARRANGEMENT
Serial No. 66B1730–Up

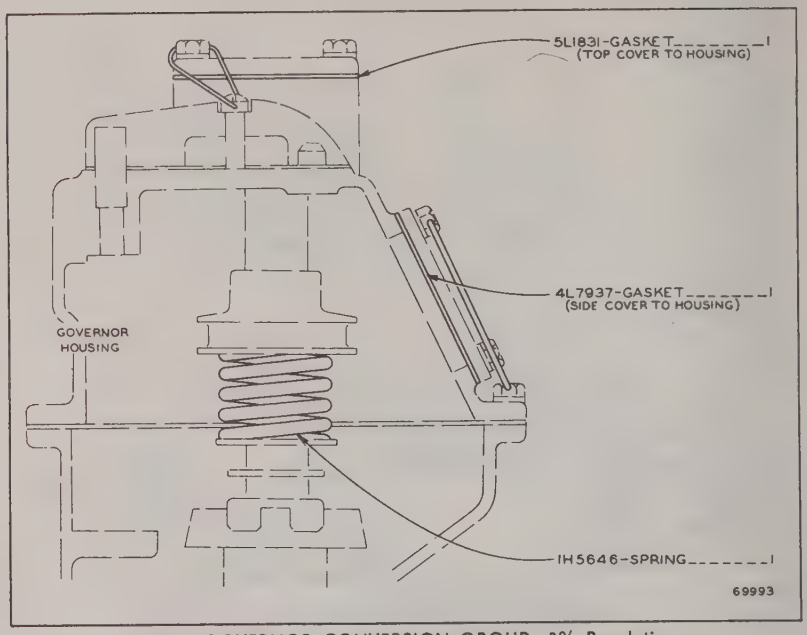
| | | | |
|---|---|---|---|
| 5L8039 | For use with 1200 R.P.M. to 1250 R.P.M. | | |
| | Consists of: | | |
| 2 | 4F2551 | Spacer--.017" thick | |
| 1 | 4F2552 | Spring--.072" thick | |
| 5L5779 | For use with 1250 R.P.M. to 1300 R.P.M. | | |
| | Consists of: | | |
| 1 | 4F2552 | Spring--.072" thick | |
| 1 | 5M1886 | Spacer--.022" thick | |

TORQUE SPRING GROUPS

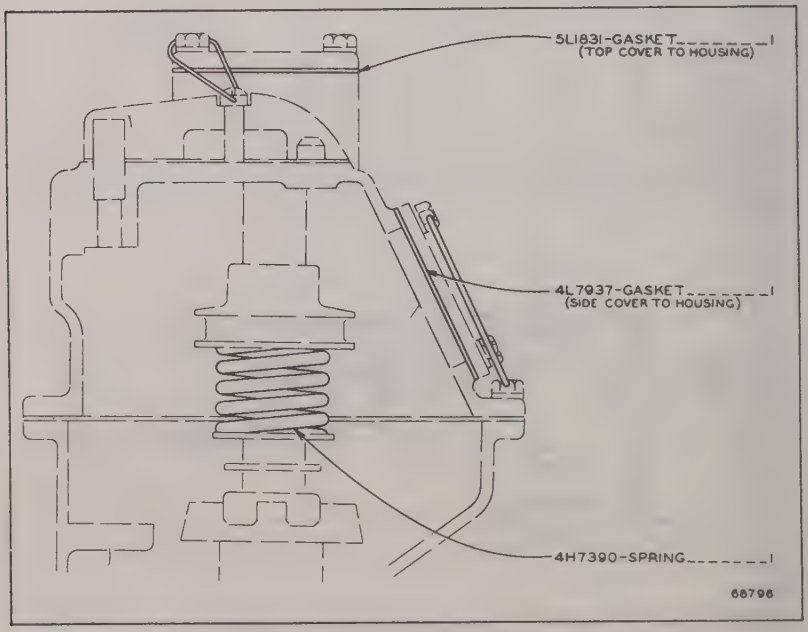
## 6L4246 GOVERNOR ASSEMBLY

Part of 5L4936 Woodward Governor Group shown on Page 148F

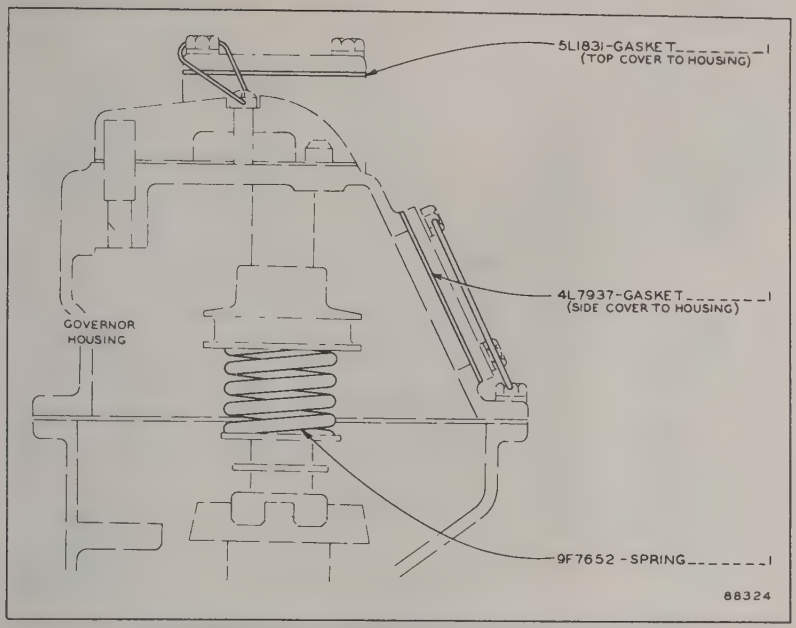




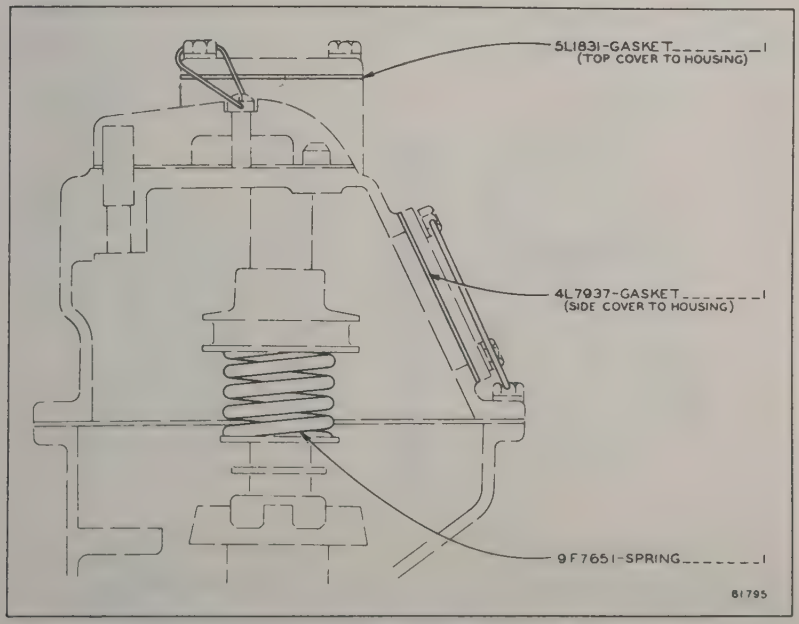

5L7472 GOVERNOR CONVERSION GROUP—3% Regulation



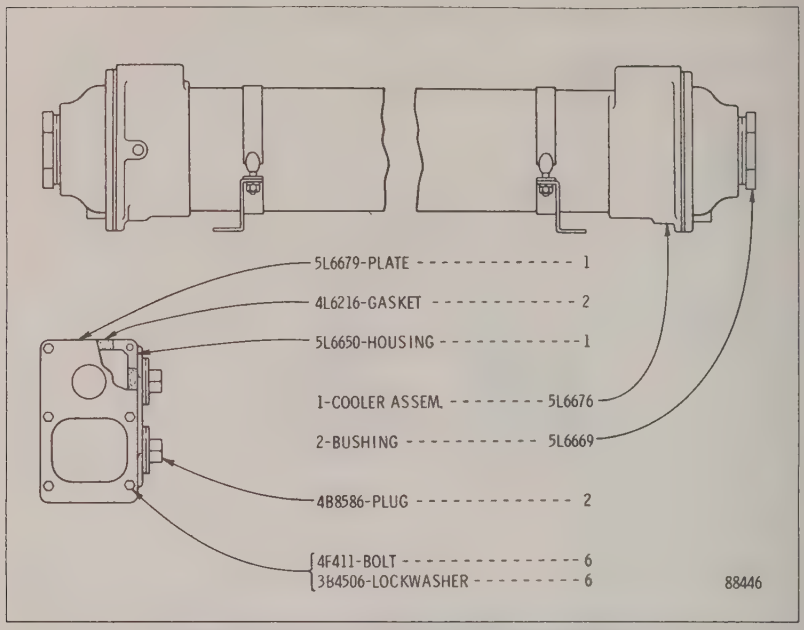

5L6945 GOVERNOR CONVERSION GROUP—3% Regulation



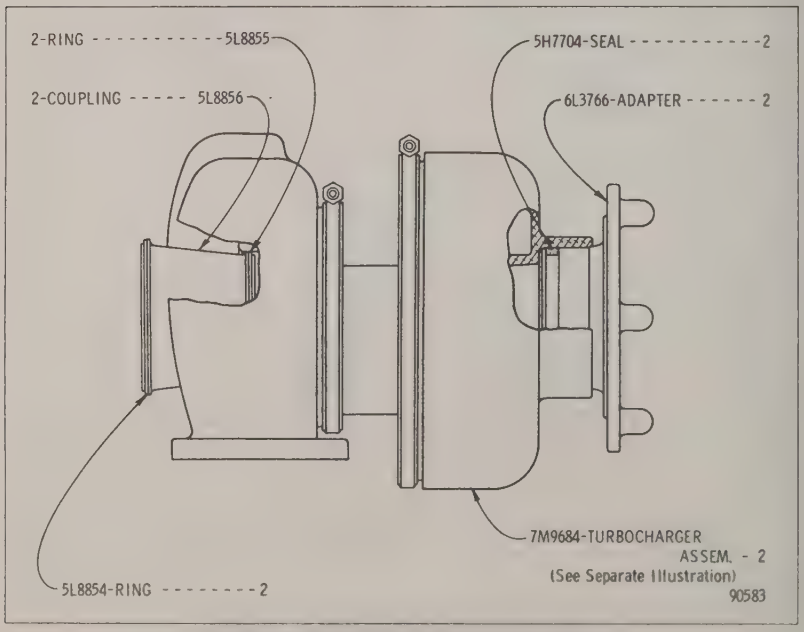

6L4913 GOVERNOR CONVERSION GROUP—10% Regulation



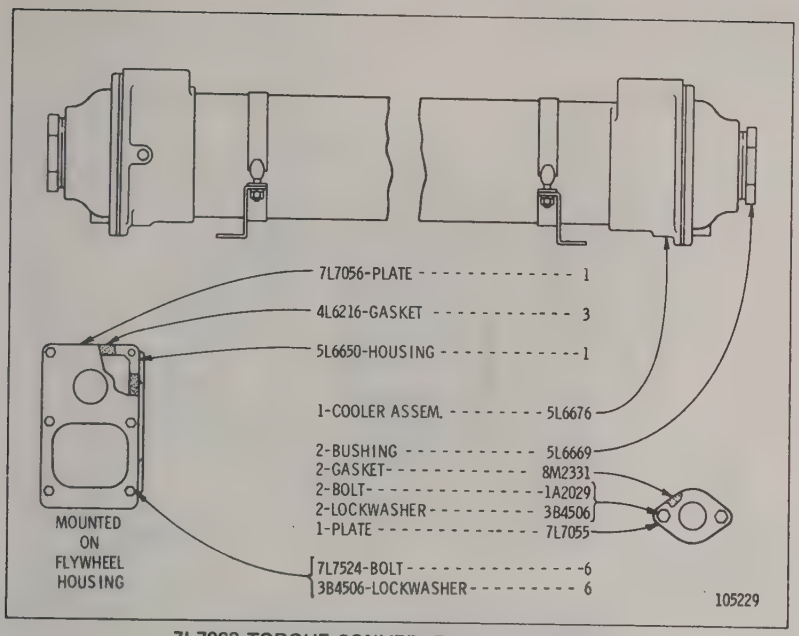

5L7473 GOVERNOR CONVERSION GROUP—10% Regulation



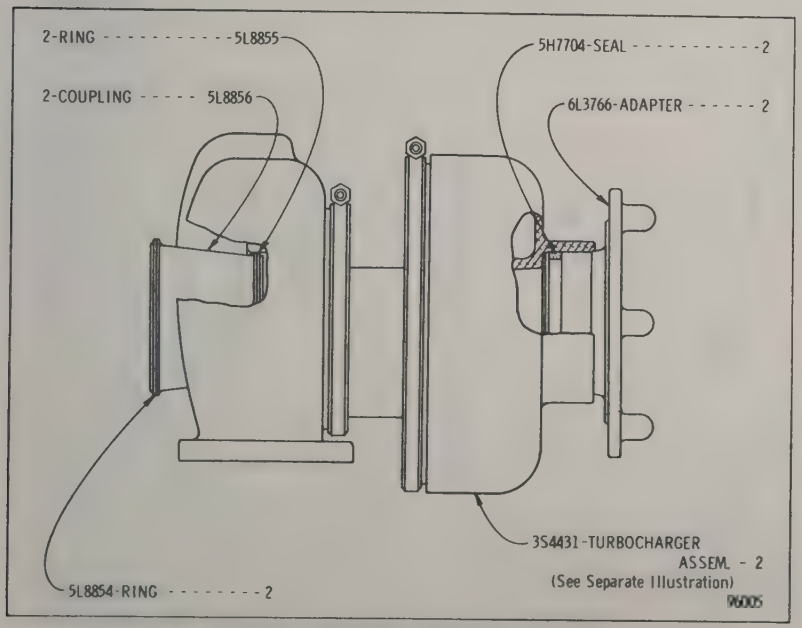

**5L6677 TORQUE CONVERTER COOLER GROUP**
**Serial No. 66B1 to 66B1414 inclusive**



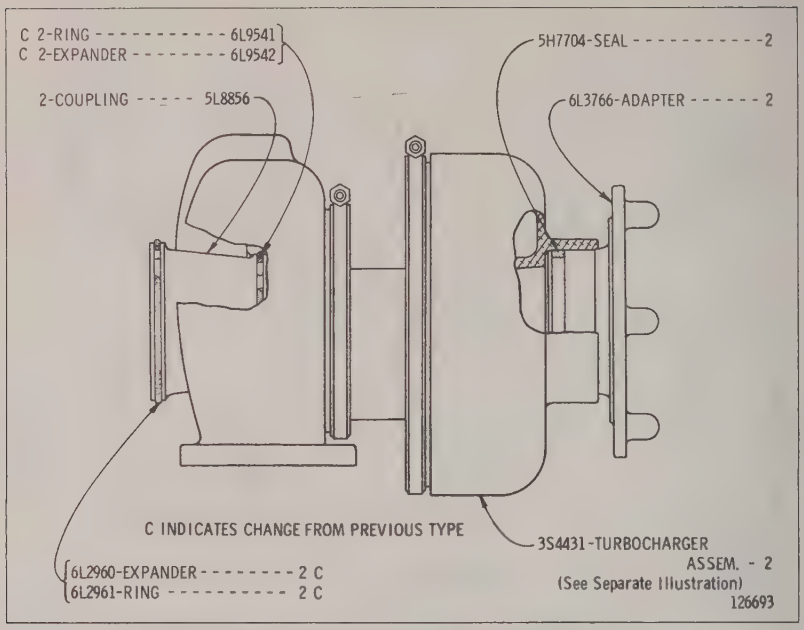

**6L4234 TURBOCHARGER GROUP—Type 1**
**Serial No. 66B700 to 66B1690 inclusive**
7M9684 Turbocharger Assembly parts are shown on Page 157C



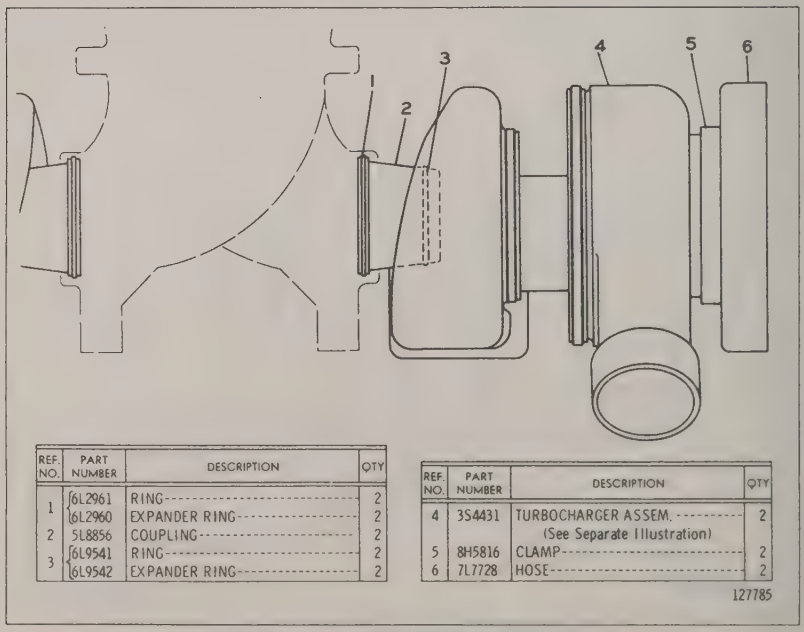

**7L7063 TORQUE CONVERTER COOLER GROUP**
**Effective with Serial No. 66B1415**




**6L4234 TURBOCHARGER GROUP—Type 2**
**Serial No. 66B700 to 66B1690 inclusive**
**3S4431 Turbocharger Assembly parts are shown on Page 157D**



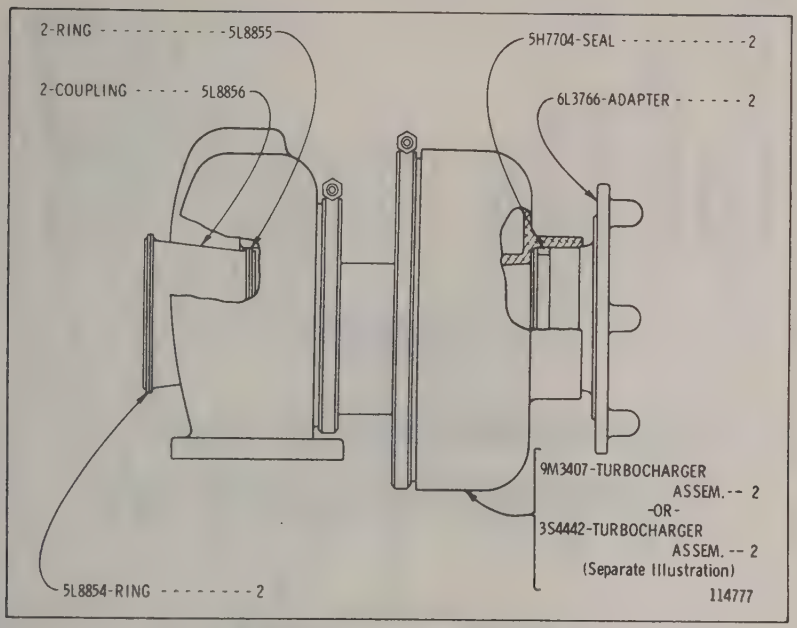

**6L4234 TURBOCHARGER GROUP—Type 3**
**Serial No. 66B700 to 66B1690 inclusive**
**3S4431 Turbocharger parts are shown on Page 157D**



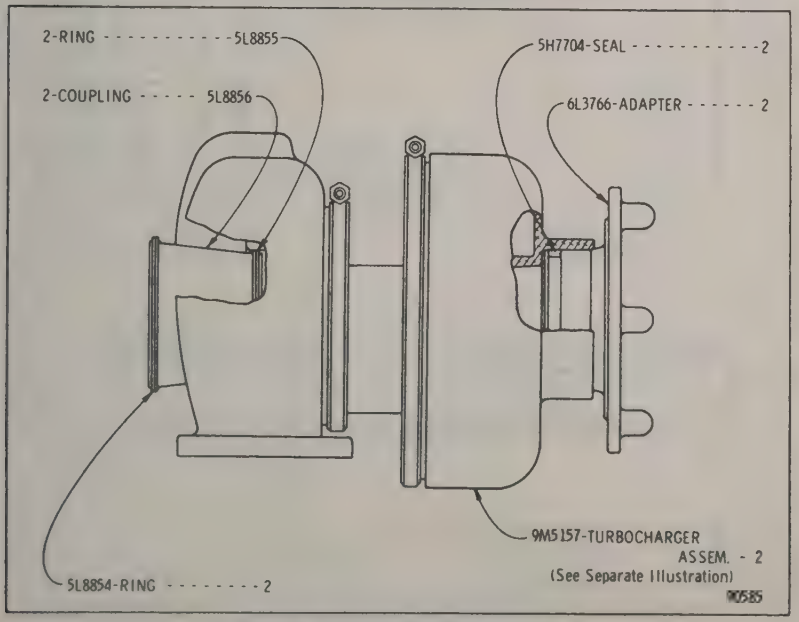

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L2961 | RING | 2 |
| | 6L2960 | EXPANDER RING | 2 |
| 2 | 5L8856 | COUPLING | 2 |
| 3 | 6L9541 | RING | 2 |
| | 6L9542 | EXPANDER RING | 2 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 4 | 3S4431 | TURBOCHARGER ASSEM. (See Separate Illustration) | 2 |
| 5 | 8H5816 | CLAMP | 2 |
| 6 | 7L7728 | HOSE | 2 |

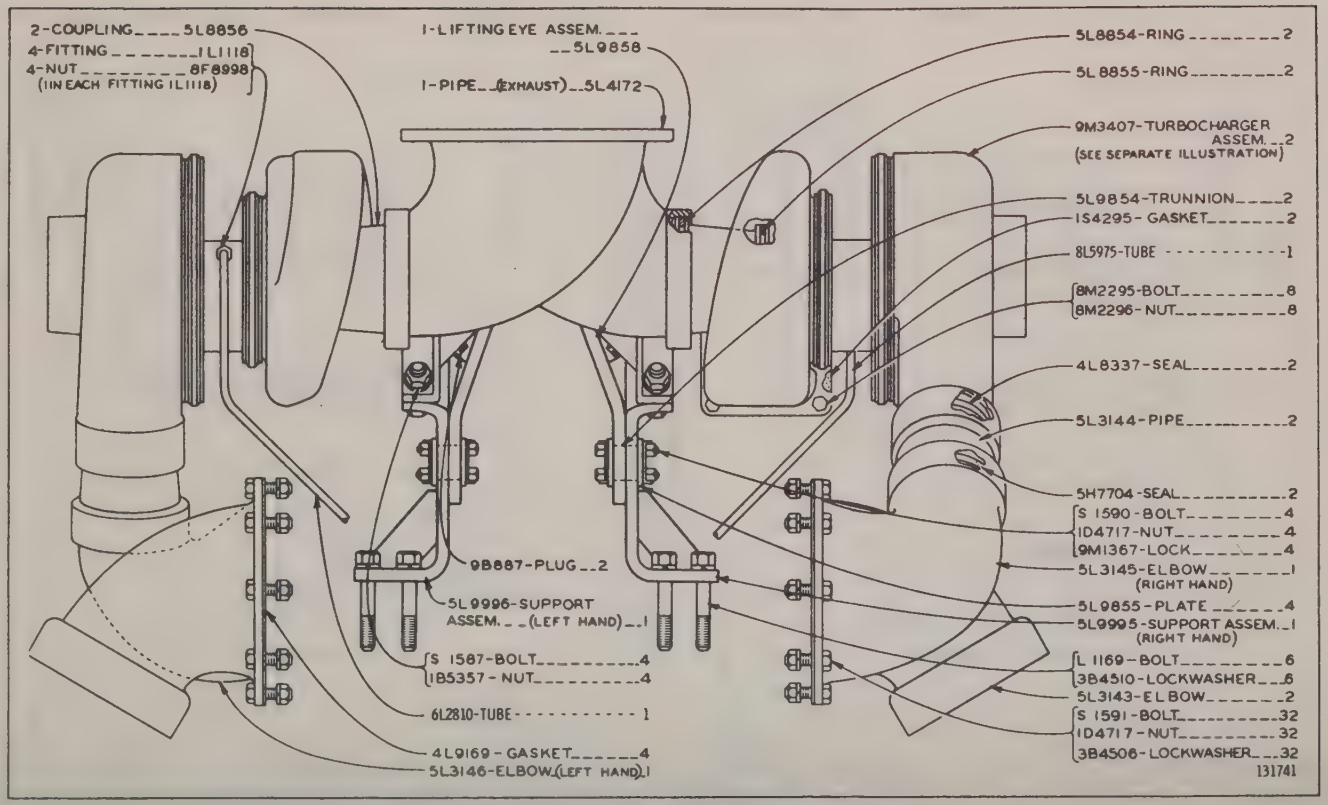
**2N6203 TURBOCHARGER GROUP**
**Serial No. 66B1691—Up**
**3S4431 Turbocharger parts are shown on Page 157D**




**6L4235 TURBOCHARGER GROUP**
**Serial No. 66B700—Up. 9M3407 and 3S4442 Turbocharger parts are shown on Pages 157F and 157G. Only separate parts serviced**

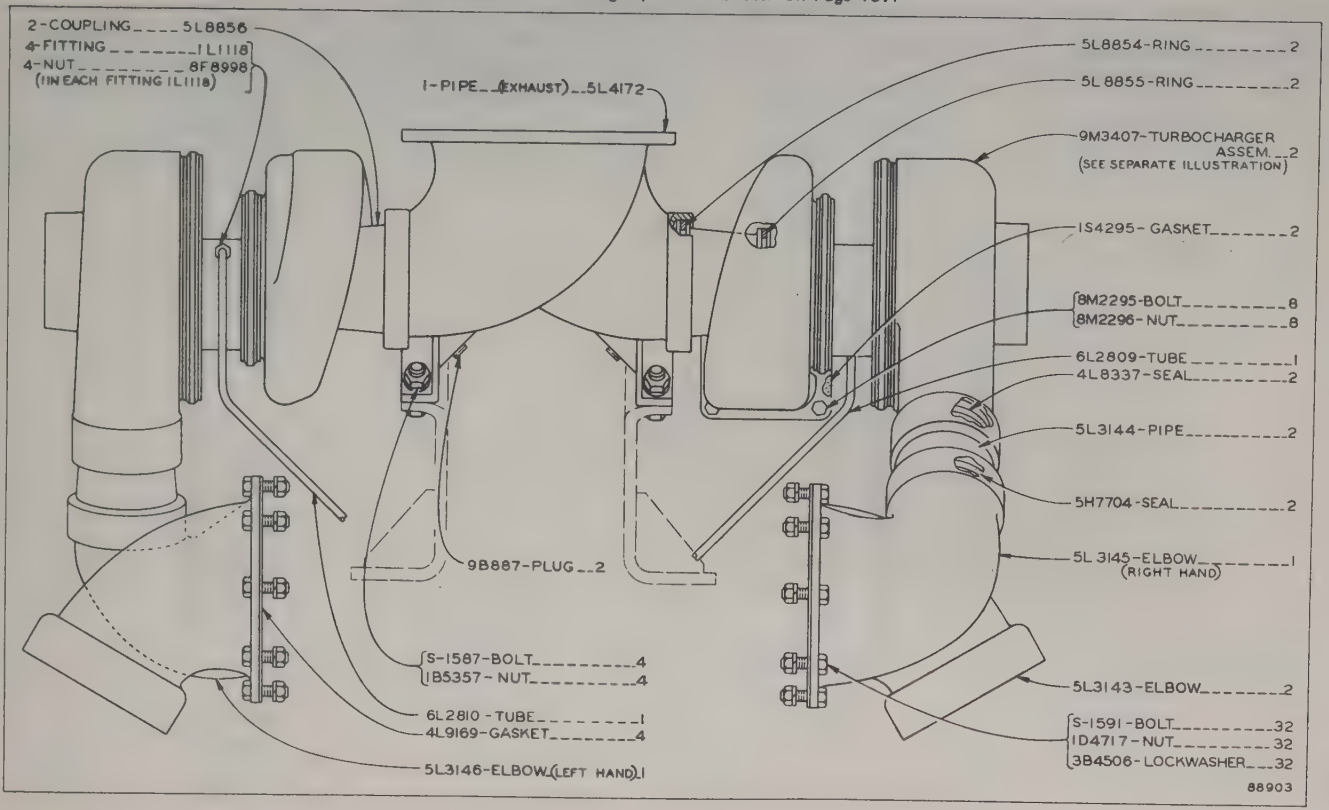


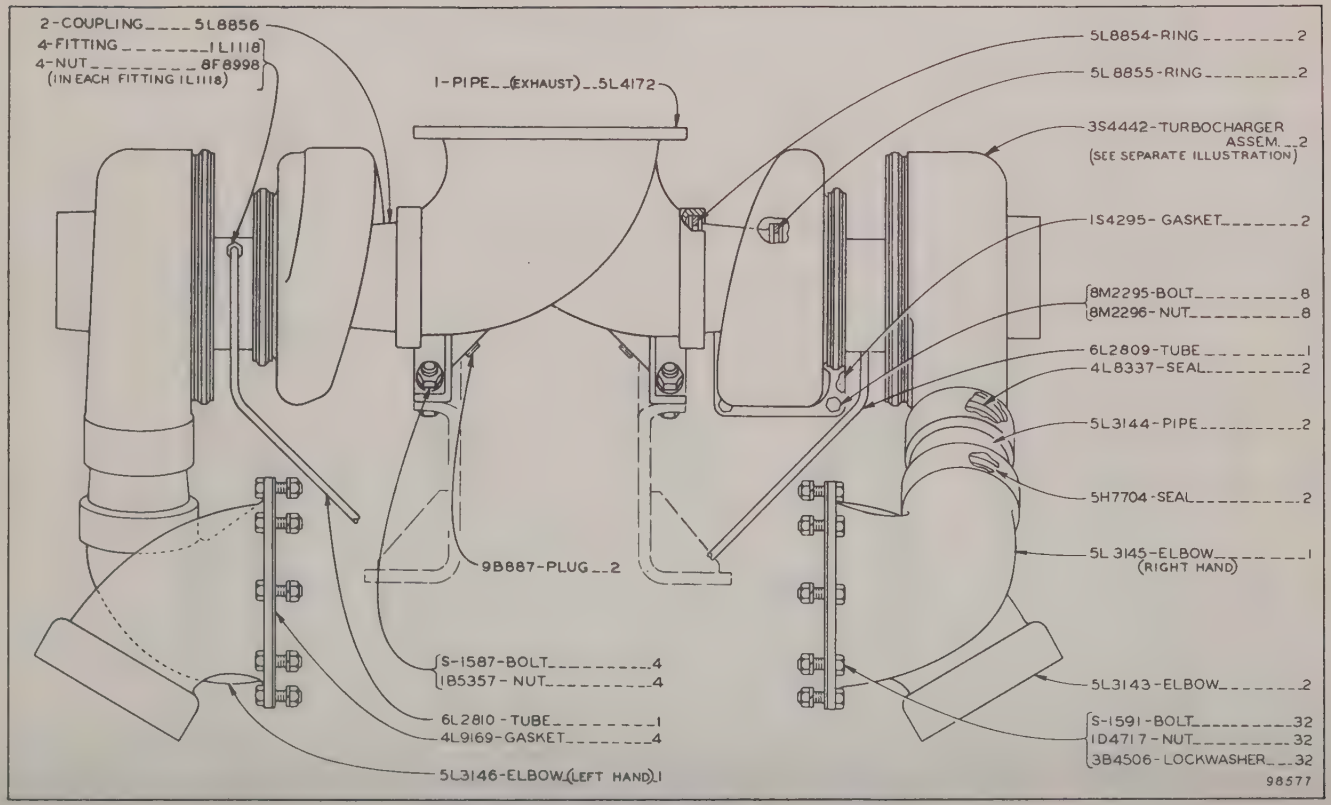

**6L4236 TURBOCHARGER GROUP**
**Serial No. 66B700—Up**
**9M5157 Turbocharger parts are shown on Page 157E**




**6L3066 TURBOCHARGER GROUP—Rear View—Type 1**
**Serial No. 75B1—Up**
**9M3407 Turbocharger parts are shown on Page 157F**

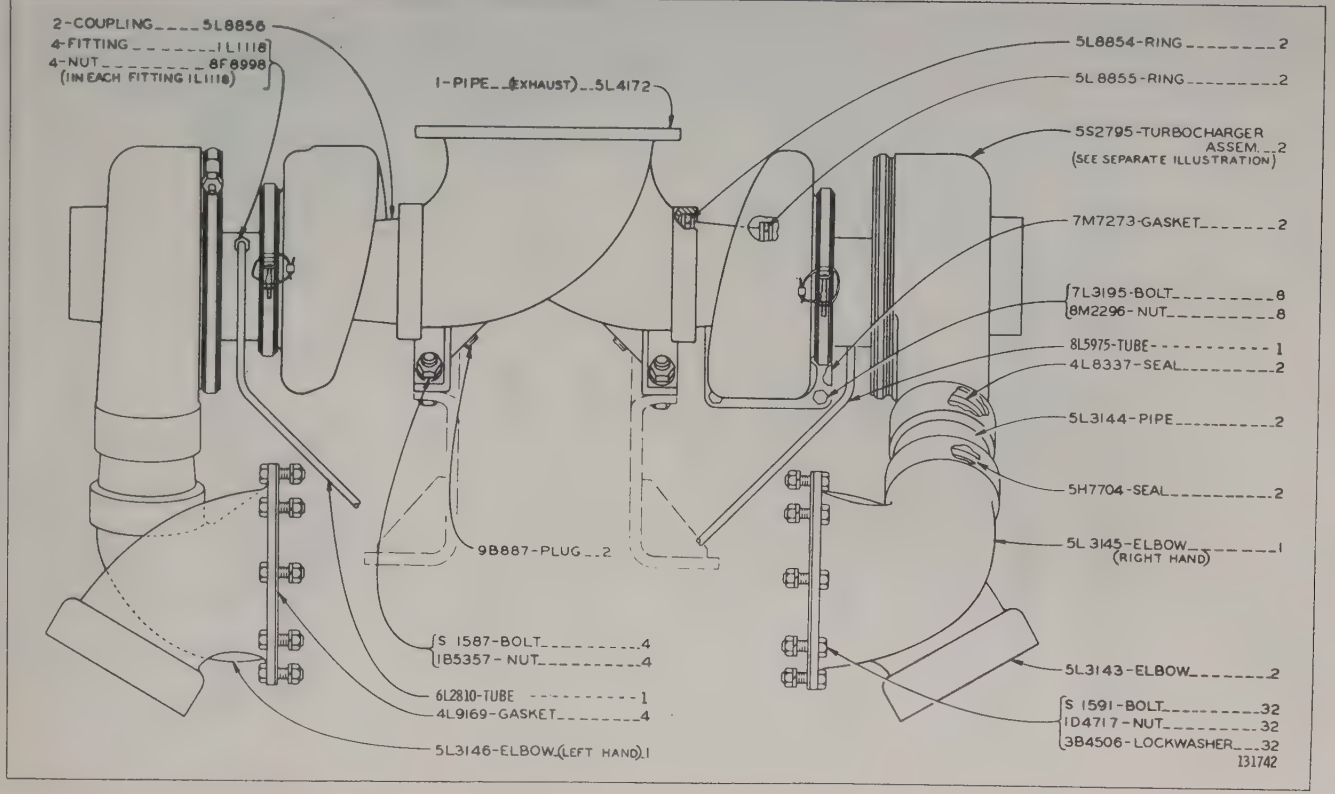
## 6L3066 TURBOCHARGER GROUP—Rear View—Type 2
Serial No. 75B1—Up
9M3407 Turbocharger parts are shown on Page 157F

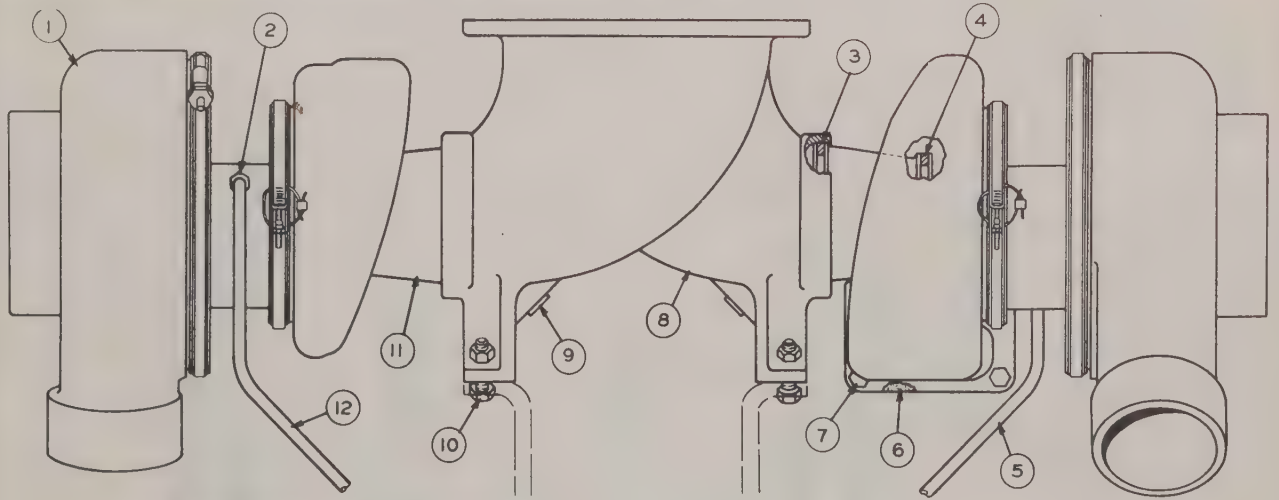





**6L3066 TURBOCHARGER GROUP—Rear View—Type 3**
**Serial No. 75B1—Up**
**3S4442 Turbocharger parts are shown on Page 157G**

## 6L3066 TURBOCHARGER GROUP—Rear View—Type 4
Serial No. 75B1-Up
5S2795 Turbocharger parts are shown on Page 157H





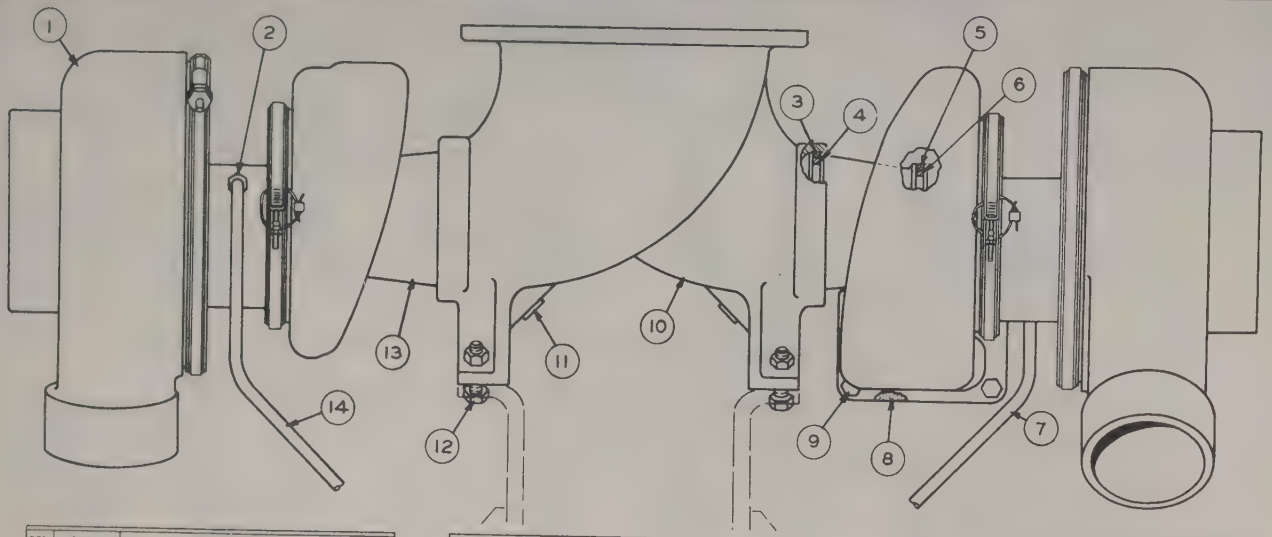

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5S2795 | TURBOCHARGER ASSEM. (See Separate Illustration) | 2 |
| 2 | 1L1118 | FITTING | 4 |
| | 8F8998 | NUT (1 in each 1L1118 Fitting) | 4 |
| 3 | 5L8854 | RING | 2 |
| 4 | 5L8855 | RING | 2 |
| 5 | 8L5975 | TUBE | 1 |
| 6 | 7M7273 | GASKET | 2 |
| 7 | 7L3195 | BOLT | 8 |
| | 8M2296 | NUT | 8 |
| 8 | 5L4172 | PIPE (Exhaust) | 1 |
| 9 | 9B887 | PLUG | 2 |
| 10 | S1587 | BOLT | 4 |
| | 1B5357 | NUT | 4 |
| 11 | 5L8856 | COUPLING | 2 |
| 12 | 6L2810 | TUBE | 1 |

6L3066 TURBOCHARGER GROUP—Rear View—Type 5
Serial No. 75B1—Up
5S2795 Turbocharger parts are shown on Page 157H

## 6L3066 TURBOCHARGER GROUP—Rear View—Type 6

Serial No. 7581—Up

5S2795 and 8S2743 Turbocharger parts are shown on Pages 157H and 158

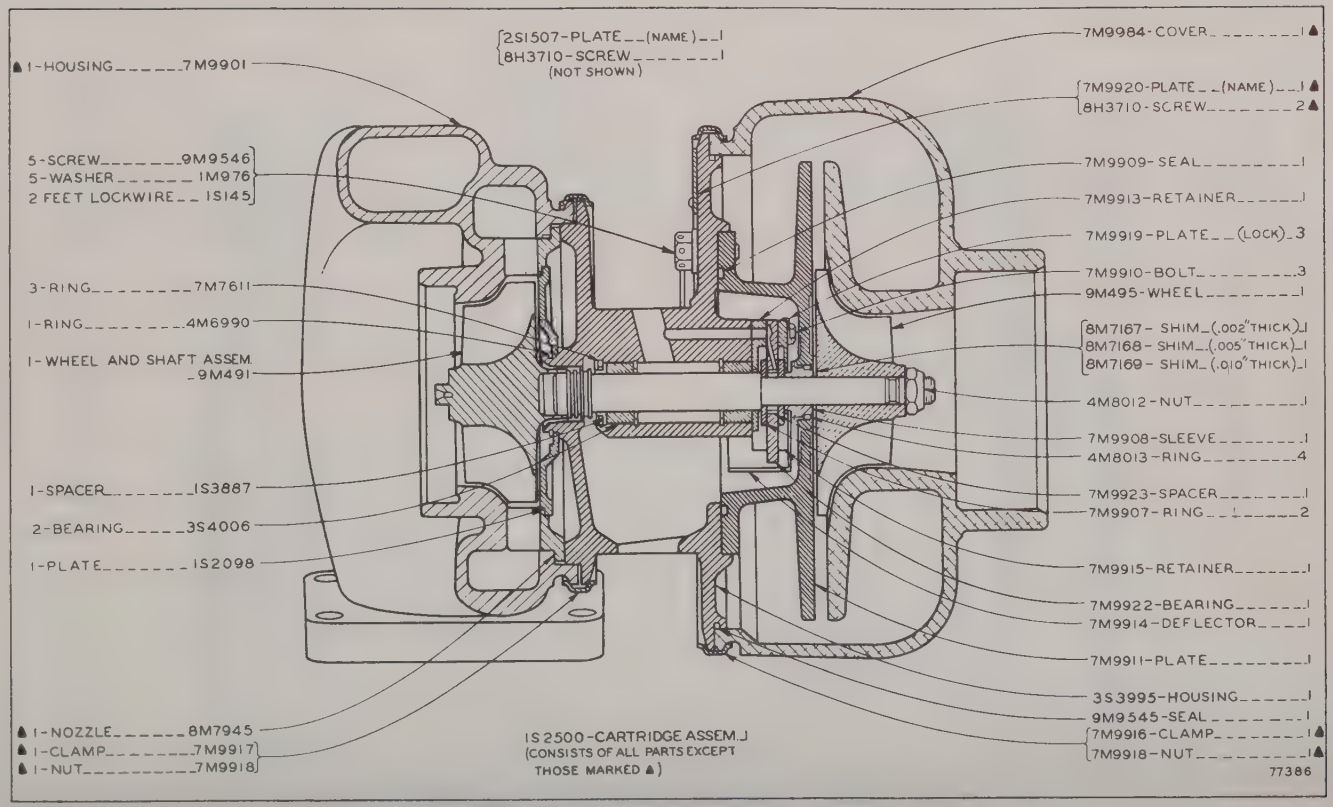



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 5S2795 | TURBOCHARGER ASSEM. | 2 |
| | | -or- | |
| | 8S2743 | TURBOCHARGER ASSEM. | 2 |
| | | (See Separate Illustration) | |
| 2 | 1L1118 | FITTING | 4 |
| | 8F8998 | NUT | 4 |
| | | (1 in each 1L1118 Fitting) | |
| 3 | 6L2961 | RING | 2 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 4 | 6L2960 | EXPANDER | 2 |
| 5 | 6L9541 | RING | 2 |
| 6 | 6L9542 | EXPANDER | 2 |
| 7 | 8L5975 | TUBE | 1 |
| 8 | 7M7273 | GASKET | 2 |
| 9 | 7L3195 | BOLT | 8 |
| | 8M2296 | NUT | 8 |
| 10 | 5L4172 | PIPE (Exhaust) | 1 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 11 | 9B887 | PLUG | 2 |
| 12 | S1587 | BOLT | 4 |
| | 1B5357 | NUT | 4 |
| 13 | 5L8856 | COUPLING | 2 |
| 14 | 6L2810 | TUBE | 1 |

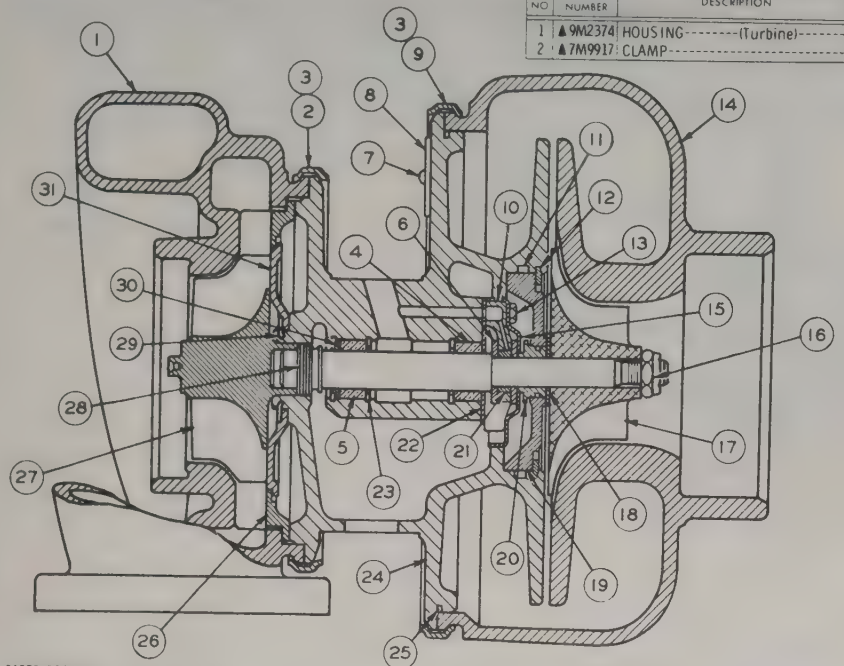
131744




**7M9684 TURBOCHARGER ASSEMBLY—2 Required**
Serial No. 66B700 to 66B1690 inclusive. Part of 6L4234 Turbocharger Group shown on Page 154
Only separate parts serviced. When complete Assembly is required order 3S4431

# 3S4431 TURBOCHARGER ASSEMBLY

Part of 6L4234 and 2N6203 Turbocharger Groups shown on Pages 154A and 154B



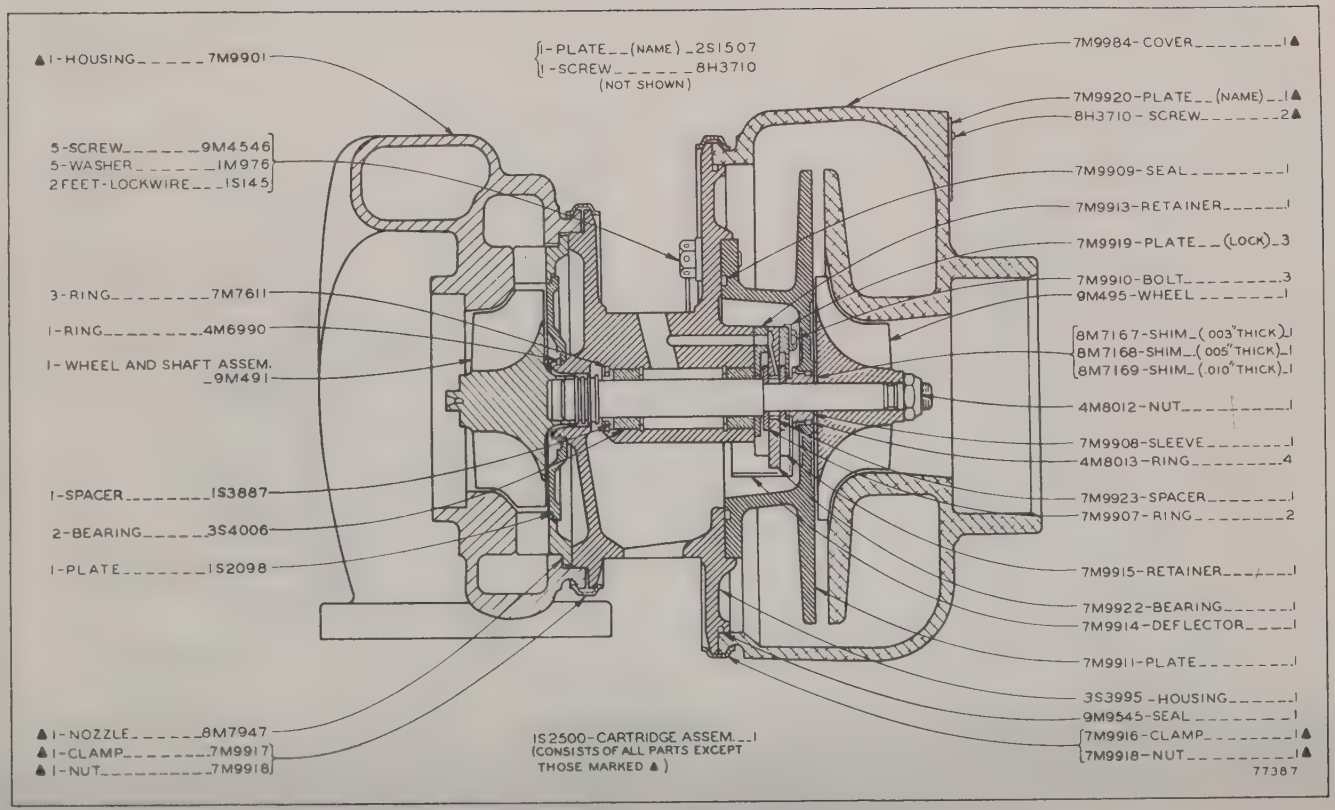
| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | ▲9M2374 | HOUSING--------(Turbine)-------- | 1 |
| 2 | ▲7M9917 | CLAMP---------- | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 3 | ▲7M9918 | NUT---------- | 2 |
| | 3S5854 | BEARING GROUP---------- | 1 |
| | | Consisting of: | |
| 4 | Not Serv. | BEARING-------(Grooved)------- | 1 |
| 5 | Not Serv. | BEARING-------(Plain)-------- | 1 |
| | 36070 | FORM---------- | 1 |
| | | (Bearing Group Installation) | |
| 6 | 7M9907 | RING---------- | 2 |
| 7 | ▲8H3710 | SCREW---------- | 2 |
| | 8H3710 | SCREW---------- | 1 |
| 8 | ▲7M9920 | PLATE----------(Name)--------- | 1 |
| | 2S1507 | PLATE------(Name-Cartridge)------ | 1 |
| 9 | ▲7M9916 | CLAMP---------- | 1 |
| 10 | 2S1306 | BEARING---------- | 1 |
| 11 | 3S1427 | SEAL---------- | 1 |
| 12 | 2S1307 | RING---------- | 1 |
| 13 | 7M9910 | BOLT---------- | 3 |
| | 7M9919 | PLATE----------(Lock)--------- | 3 |
| 14 | ▲3S4256 | COVER-------(Compressor)------- | 1 |
| 15 | 2S1308 | DEFLECTOR---------- | 1 |
| 16 | 4M8012 | NUT---------- | 1 |
| 17 | 9M495 | WHEEL---------- | 1 |
| 18 | 8M7167 | SHIM--------(.003" Thick)------- | 1 |
| | 8M7168 | SHIM--------(.005" Thick)------- | 1 |
| | 8M7169 | SHIM--------(.010" Thick)------- | 1 |
| 19 | 2S1305 | INSERT---------- | 1 |
| 20 | 7M9908 | SLEEVE---------- | 1 |
| 21 | 7M9923 | SPACER---------- | 1 |
| 22 | 2S1310 | SPACER---------- | 1 |
| 23 | 7M7611 | RING---------- | 3 |
| 24 | 1S5372 | HOUSING---------- | 1 |
| 25 | 9M9545 | SEAL---------- | 1 |
| 26 | ▲8M7945 | NOZZLE---------- | 1 |
| 27 | 9M491 | WHEEL AND SHAFT ASSEM. -------- | 1 |
| 28 | 4M8013 | RING---------- | 4 |
| 29 | 4M6990 | RING---------- | 1 |
| 30 | 1S3887 | SLEEVE---------- | 1 |
| 31 | 1S2098 | PLATE---------- | 1 |

31778-FORM----------1
(Instructions for Installing Turbocharger Assem. or Turbocharger Nozzle)

3S4261-CARTRIDGE ASSEM. -----1
(Consists of all Parts Except Those Marked ▲)

97516

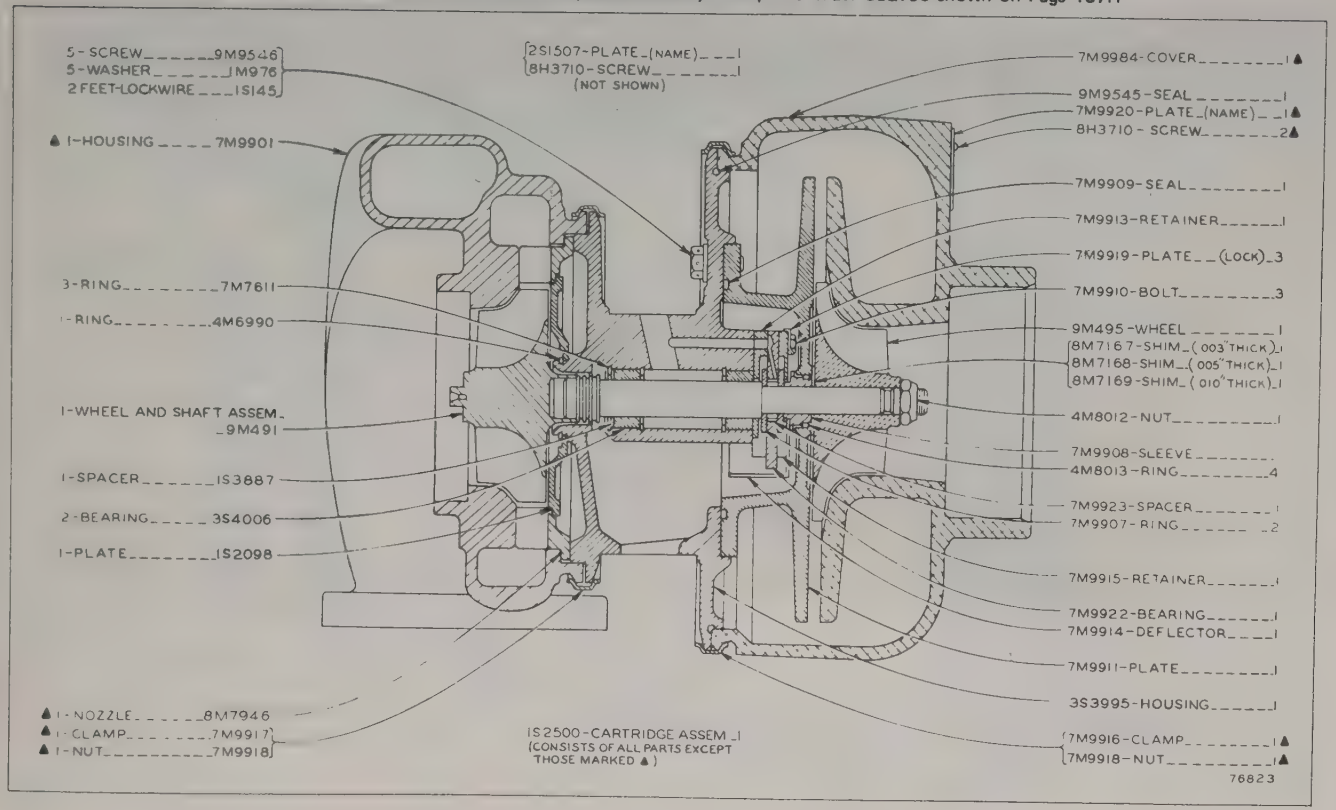


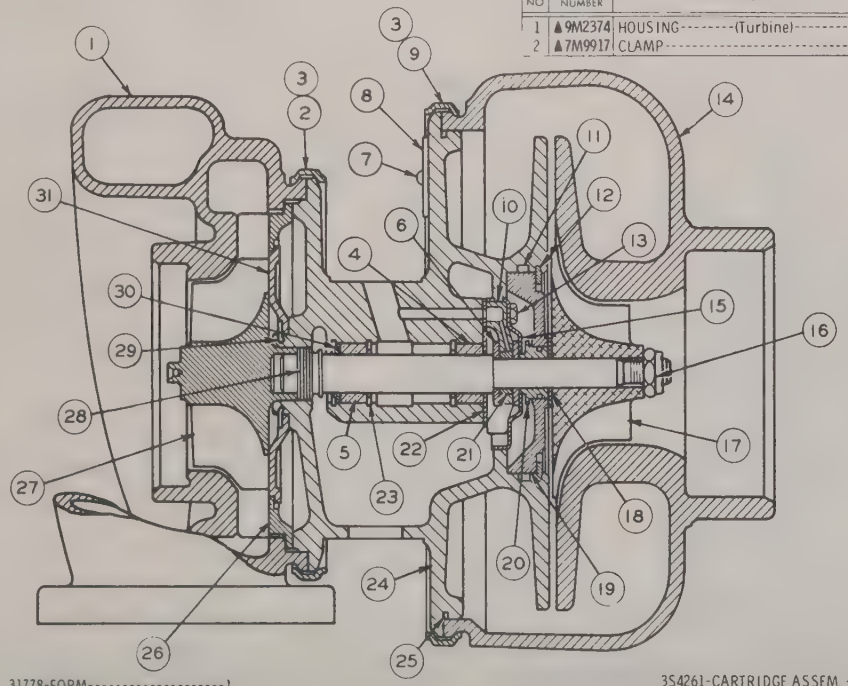

**9M5157 TURBOCHARGER ASSEMBLY—2 Required**
**Serial No. 668700—Up**
**Part of 6L4236 Turbocharger Group shown on Page 155**

## 9M3407 TURBOCHARGER ASSEMBLY—2 Required

Part of 6L4235 and 6L3066 Turbocharger Groups shown on Pages 155, 156 and 156A

Only separate parts serviced. When complete Assembly is required order 5S2795 shown on Page 157H





| REF. NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | ▲9M2374 | HOUSING--------(Turbine)-------- | 1 |
| 2 | ▲7M9917 | CLAMP---------- | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 3 | ▲7M9918 | NUT | 2 |
| | 3S5854 | BEARING GROUP | 1 |
| | | Consisting of | |
| 4 | Not Serv. | BEARING----(Grooved) | 1 |
| 5 | Not Serv. | BEARING----(Plain) | 1 |
| | 36070 | FORM | 1 |
| | | (Bearing Group Installation) | |
| 6 | 7M9907 | RING | 2 |
| 7 | ▲8H3710 | SCREW | 1 |
| | 8H3710 | SCREW | 1 |
| 8 | ▲7M9920 | PLATE----------(Name)---------- | 1 |
| | 2S1507 | PLATE------(Name-Cartridge)------ | 1 |
| 9 | ▲7M9916 | CLAMP | 1 |
| 10 | 2S1306 | BEARING | 1 |
| 11 | 3S1427 | SEAL | 1 |
| 12 | 2S1307 | RING | 1 |
| 13 | 7M9910 | BOLT | 3 |
| | 7M9919 | PLATE----------(Lock)---------- | 3 |
| 14 | ▲3S4256 | COVER-------(Compressor)-------- | 1 |
| 15 | 2S1308 | DEFLECTOR | 1 |
| 16 | 4M8012 | NUT | 1 |
| 17 | 9M495 | WHEEL | 1 |
| 18 | 8M7167 | SHIM--------(.003" Thick)-------- | 1 |
| | 8M7168 | SHIM--------(.005" Thick)-------- | 1 |
| | 8M7169 | SHIM--------(.010" Thick)-------- | 1 |
| 19 | 2S1305 | INSERT | 1 |
| 20 | 7M9908 | SLEEVE | 1 |
| 21 | 7M9923 | SPACER | 1 |
| 22 | 2S1310 | SPACER | 1 |
| 23 | 7M7611 | RING | 3 |
| 24 | 1S5372 | HOUSING | 1 |
| 25 | 9M9545 | SEAL | 1 |
| 26 | ▲8M7946 | NOZZLE | 1 |
| 27 | 9M491 | WHEEL AND SHAFT ASSEM. | 1 |
| 28 | 4M8013 | RING | 4 |
| 29 | 4M6990 | RING | 1 |
| 30 | 1S3887 | SLEEVE | 1 |
| 31 | 1S2098 | PLATE | 1 |

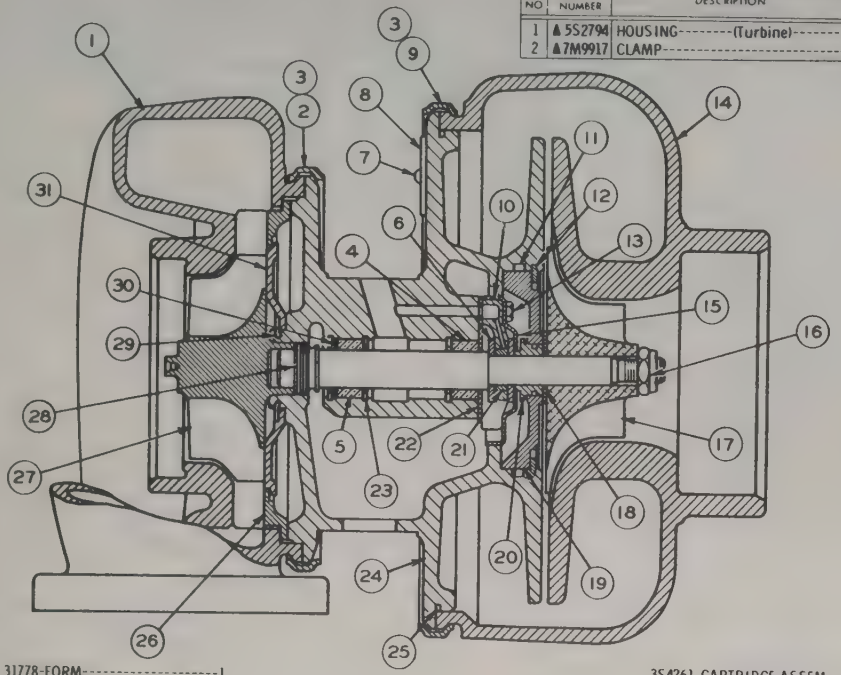
31778-FORM----------1
(Instructions for Installing Turbocharger Assem. or Turbocharger Nozzle)

3S4261-CARTRIDGE ASSEM. -----1
(Consists of all Parts Except Those Marked ▲)

98578

**3S4442 TURBOCHARGER ASSEMBLY—2 Required**
**Part of 6L4235 and 6L3066 Turbocharger Groups shown on Pages 155 and 156B**
**Only separate parts serviced. When complete Assembly is required order 5S2795**

## 5S2795 TURBOCHARGER ASSEMBLY—2 Required
Serial No. 75B1—Up
Part of 6L3066 Turbocharger Group shown on Pages 157, 157A and 157B




| REF NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | ▲5S2794 | HOUSING--------(Turbine)-------- | 1 |
| 2 | ▲7M9917 | CLAMP---------- | 1 |

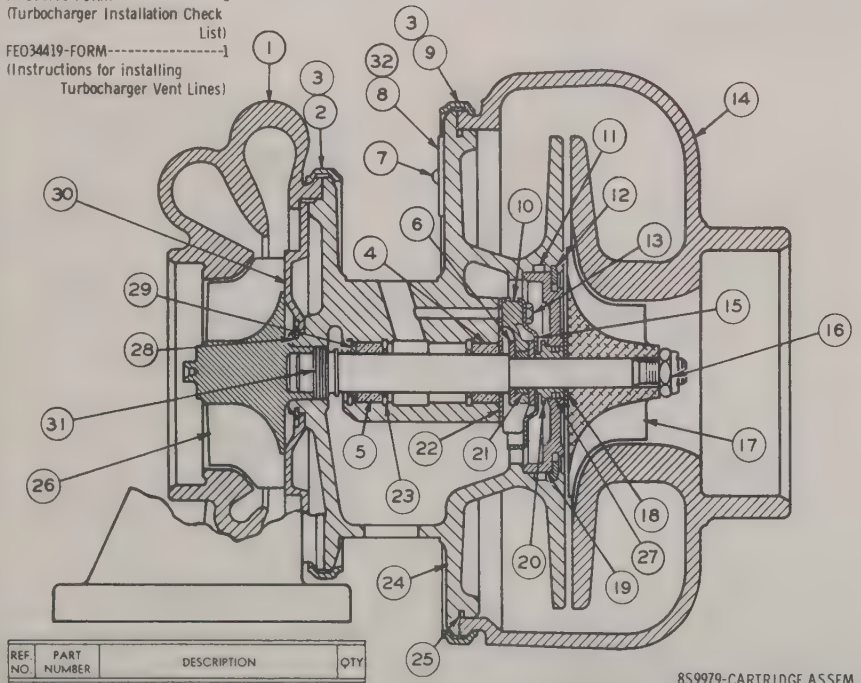
| REF NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 3 | ▲7M9918 | NUT---------- | 2 |
| | 3S5854 | BEARING GROUP---------- | 1 |
| | | Consisting of: | |
| 4 | Not Serv. | BEARING--------(Grooved)-------- | 1 |
| 5 | Not Serv. | BEARING--------(Plain)-------- | 1 |
| | 36070 | FORM---------- | 1 |
| | | (Bearing Group Installation) | |
| 6 | 7M9907 | RING---------- | 2 |
| 7 | ▲8H3710 | SCREW---------- | 1 |
| | 8H3710 | SCREW---------- | 1 |
| 8 | ▲7M9920 | PLATE----------(Name)---------- | 1 |
| | 2S1507 | PLATE------(Name-Cartridge)------ | 1 |
| 9 | ▲7M9916 | CLAMP---------- | 1 |
| 10 | 2S1306 | BEARING---------- | 1 |
| 11 | 3S1427 | SEAL---------- | 1 |
| 12 | 2S1307 | RING---------- | 1 |
| 13 | 7M9910 | BOLT---------- | 3 |
| | 7M9919 | PLATE----------(Lock)---------- | 3 |
| 14 | ▲3S4256 | COVER--------(Compressor)-------- | 1 |
| 15 | 2S1308 | DEFLECTOR---------- | 1 |
| 16 | 4M8012 | NUT---------- | 1 |
| 17 | 9M495 | WHEEL---------- | 1 |
| 18 | 8M7167 | SHIM--------(.003" Thick)-------- | 1 |
| | 8M7168 | SHIM--------(.005" Thick)-------- | 1 |
| | 8M7169 | SHIM--------(.010" Thick)-------- | 1 |
| 19 | 2S1305 | INSERT---------- | 1 |
| 20 | 7M9908 | SLEEVE---------- | 1 |
| 21 | 7M9923 | SPACER---------- | 1 |
| 22 | 2S1310 | SPACER---------- | 1 |
| 23 | 7M7611 | RING---------- | 3 |
| 24 | 1S5372 | HOUSING---------- | 1 |
| 25 | 9M9545 | SEAL---------- | 1 |
| 26 | ▲8M7945 | NOZZLE---------- | 1 |
| 27 | 9M491 | WHEEL AND SHAFT ASSEM.-------- | 1 |
| 28 | 4M8013 | RING---------- | 4 |
| 29 | 4M6990 | RING---------- | 1 |
| 30 | 1S3887 | SLEEVE---------- | 1 |
| 31 | 1S2098 | PLATE---------- | 1 |

31778-FORM----------1
(Instructions for Installing Turbocharger Assem. or Turbocharger Nozzle)

3S4261-CARTRIDGE ASSEM.-----1
(Consists of all Parts Except Those Marked ▲)

98580

FM031778-FORM ----------1
(Turbocharger Installation Check List)
FE034419-FORM----------1
(Instructions for installing Turbocharger Vent Lines)



| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 31 | 4S9248 | RING---------- | 2 |
| 32 | 2S1507 | PLATE-------(Name-Cartridge)----- | 1 |

8S9979-CARTRIDGE ASSEM. -----1
(Consists of all Parts Except Those Marked ▲)

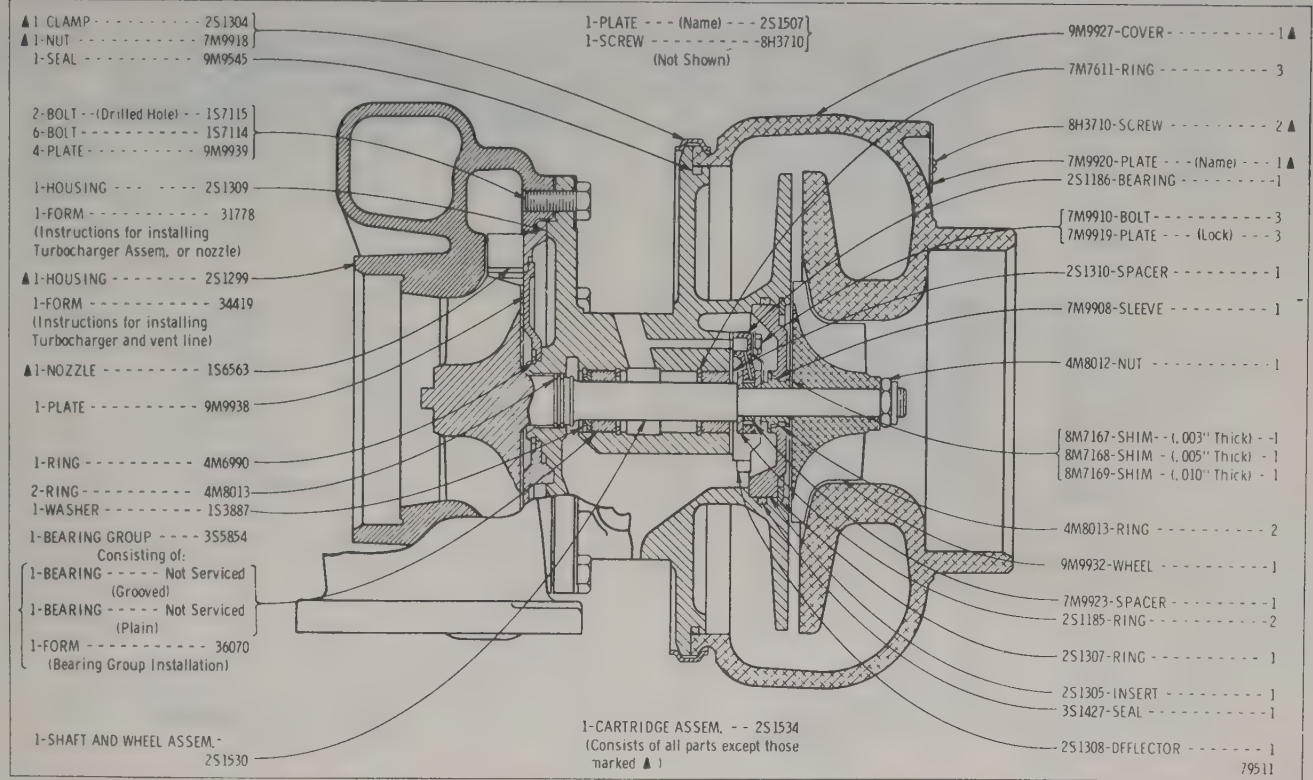
| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 9S1516▲ | HOUSING--------(Turbine)-------- | 1 |
| 2 | 7M9917▲ | CLAMP---------- | 1 |
| 3 | 7M9918▲ | NUT---------- | 2 |
| | 8S2736 | BEARING GROUP---------- | 1 |
| | | Consisting of: | |
| 4 | Not Serv. | BEARING-------(Grooved)------- | 1 |
| 5 | Not Serv. | BEARING--------(Plain)-------- | 1 |
| | FE036070-01 | FORM---------- | 1 |
| | | (Bearing Group Installation) | |
| 6 | 2S1185 | RING---------- | 2 |
| 7 | 8H3710 | SCREW---------- | 3 |
| 8 | 7M9920▲ | PLATE----------(Name)---------- | 1 |
| 9 | 7M9916▲ | CLAMP---------- | 1 |
| 10 | 8S2738 | BEARING---------- | 1 |
| 11 | 3S1427 | SEAL---------- | 1 |
| 12 | 2S1307 | RING---------- | 1 |
| 13 | 7M9831 | SCREW---------- | 3 |
| | 7M9919 | PLATE----------(Lock)---------- | 3 |
| 14 | 3S4256▲ | COVER-------(Compressor)------- | 1 |
| 15 | 2S1308 | DEFLECTOR---------- | 1 |
| 16 | 4M8012 | NUT---------- | 1 |
| 17 | 9M495 | WHEEL---------- | 1 |
| 18 | 8M7167 | SHIM--------(.003" Thick)-------- | 1 |
| | 8M7168 | SHIM--------(.005" Thick)-------- | 1 |
| | 8M7169 | SHIM--------(.010" Thick)-------- | 1 |
| 19 | 2S1305 | INSERT---------- | 1 |
| 20 | 7M9908 | SLEEVE---------- | 1 |
| 21 | 7M9923 | SPACER---------- | 1 |
| 22 | 2S1310 | SPACER---------- | 1 |
| 23 | 7M7611 | RING---------- | 3 |
| 24 | 1S5372 | HOUSING---------- | 1 |
| 25 | 9M9545 | SEAL---------- | 1 |
| 26 | 8S2740 | WHEEL AND SHAFT ASSEM. -------- | 1 |
| 27 | 4M8013 | RING---------- | 2 |
| 28 | 4M6990 | RING---------- | 1 |
| 29 | 1S3887 | SLEEVE---------- | 1 |
| 30 | 8S2739 | PLATE---------- | 1 |

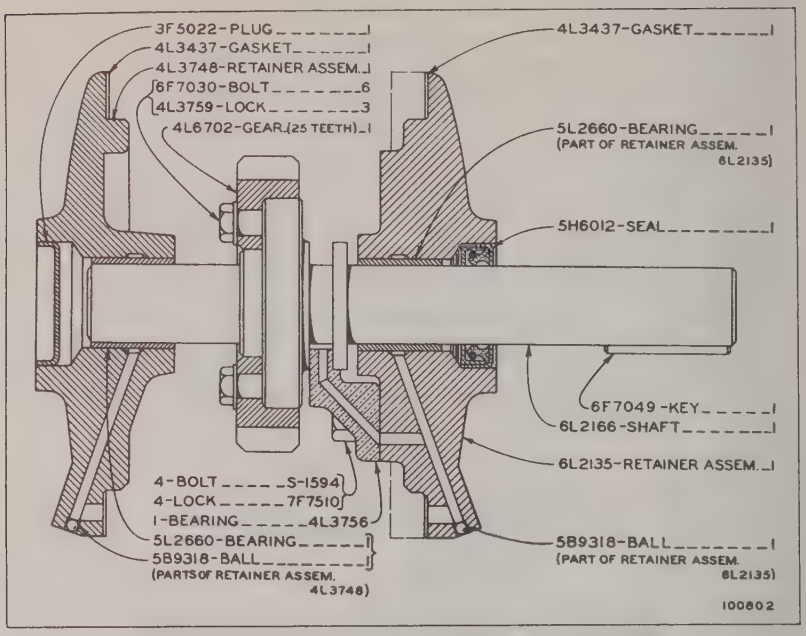
107987

**8S2743 TURBOCHARGER ASSEMBLY—2 Required**
**Serial No. 75B1—Up**
**Part of 6L3066 Turbocharger Group shown on Page 157B**

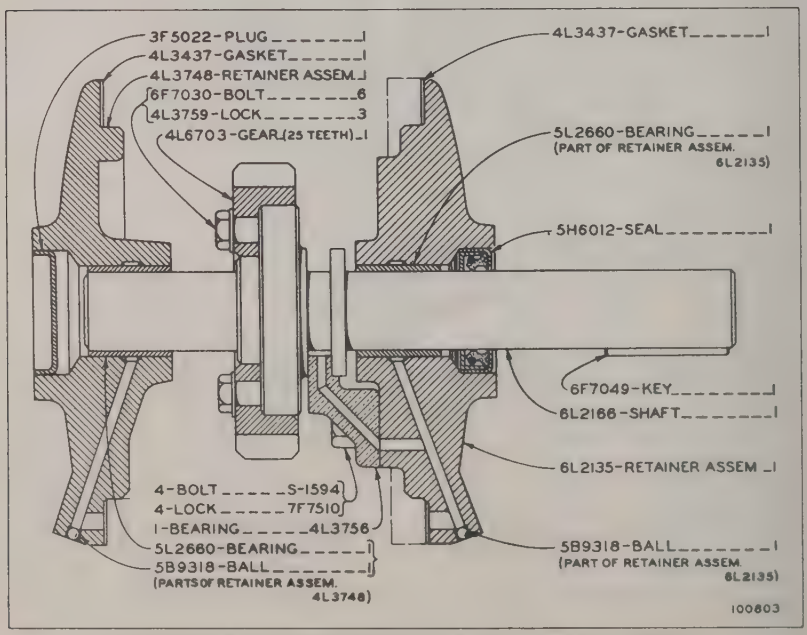
## 2S880 TURBOCHARGER ASSEMBLY—2 Assemblies Required

Effective with Serial No. 75B1

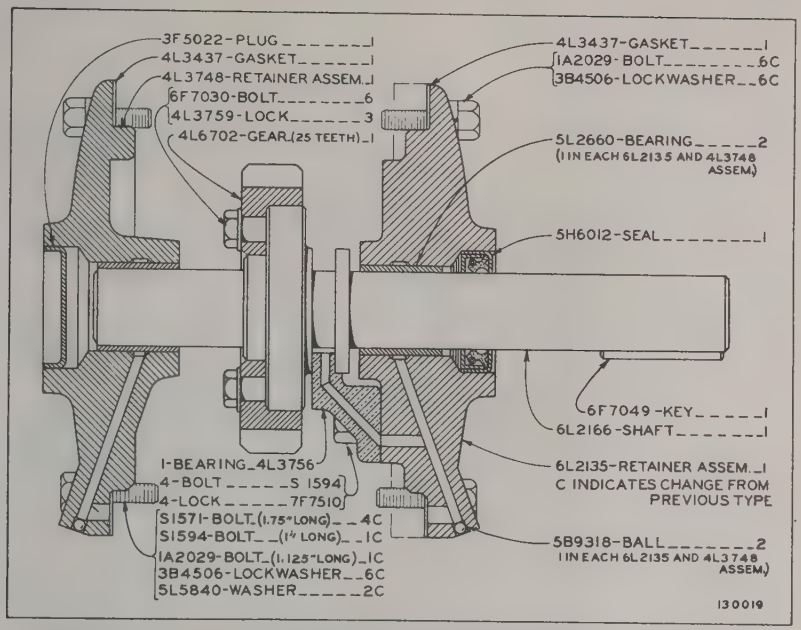




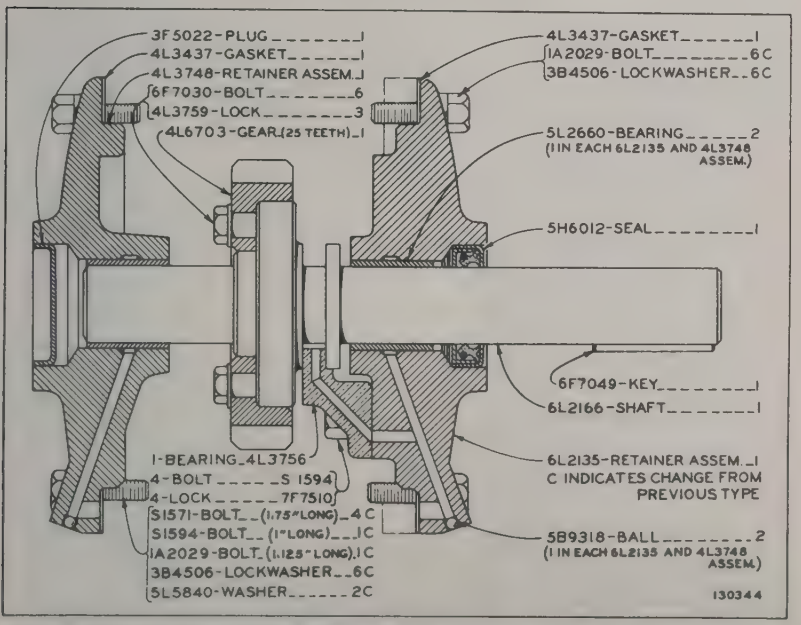

6L2120 AUXILIARY DRIVE GROUP—S.A.E. Standard Engine Rotation—Type 1
40 Horsepower Maximum at 1300 R.P.M.



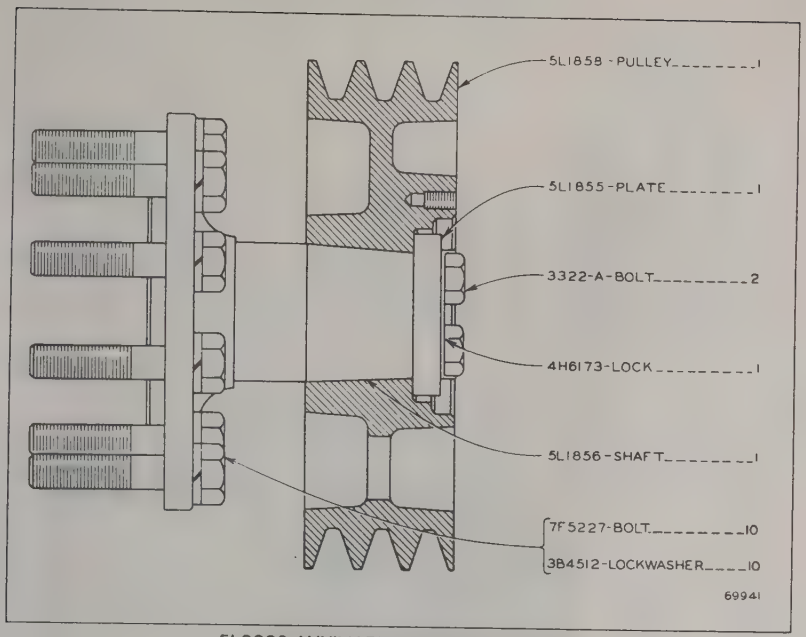

6L2649 AUXILIARY DRIVE GROUP—S.A.E. Opposite Engine Rotation



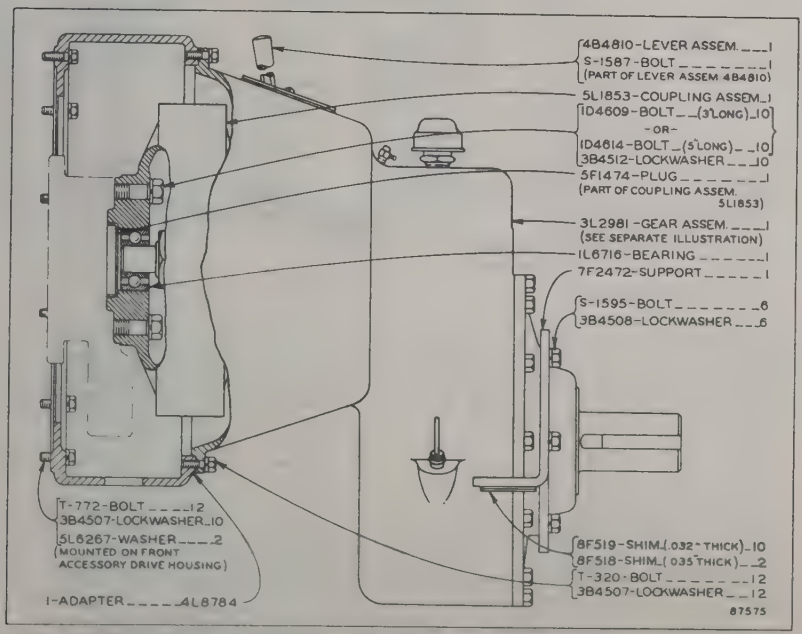

6L2120 AUXILIARY DRIVE GROUP—S.A.E. Standard Engine Rotation—Type 2
40 Horsepower Maximum at 1300 R.P.M.




6L2649 AUXILIARY DRIVE GROUP—S.A.E. Opposite Standard Engine Rotation—Type 2
40 Horsepower Maximum at 1300 R.P.M.

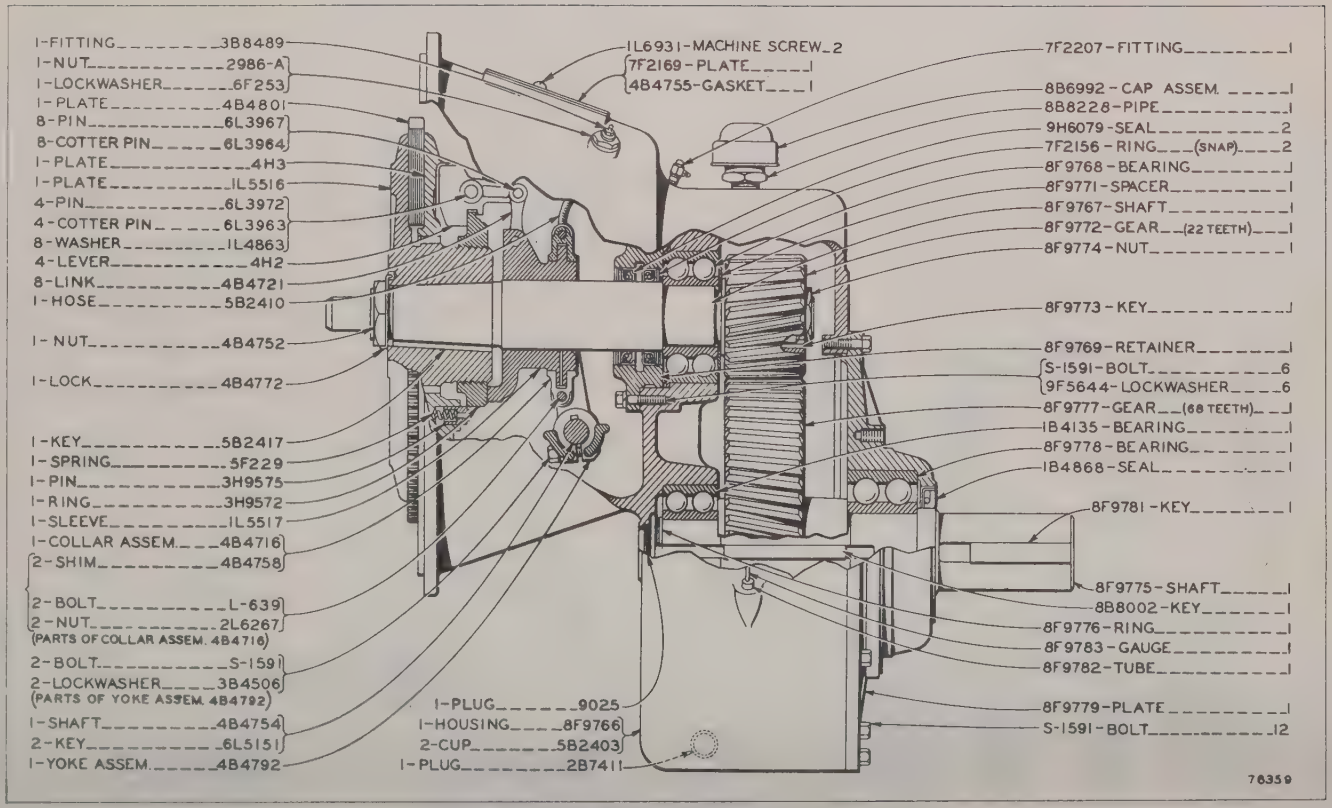



5L2066 AUXILIARY DRIVE GROUP—Front



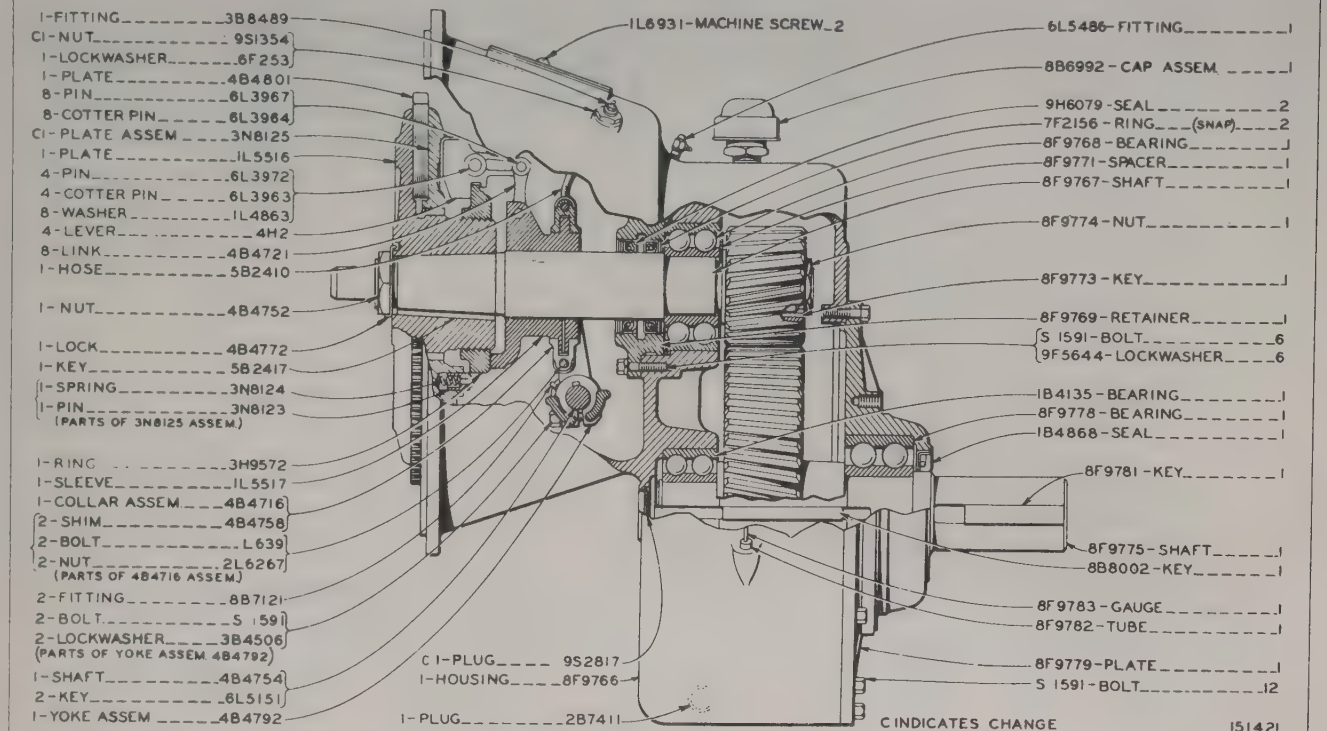

6L4053 FRONT POWER TAKE-OFF GROUP—S.A.E. Opposite Engine Rotation—3:1 Ratio

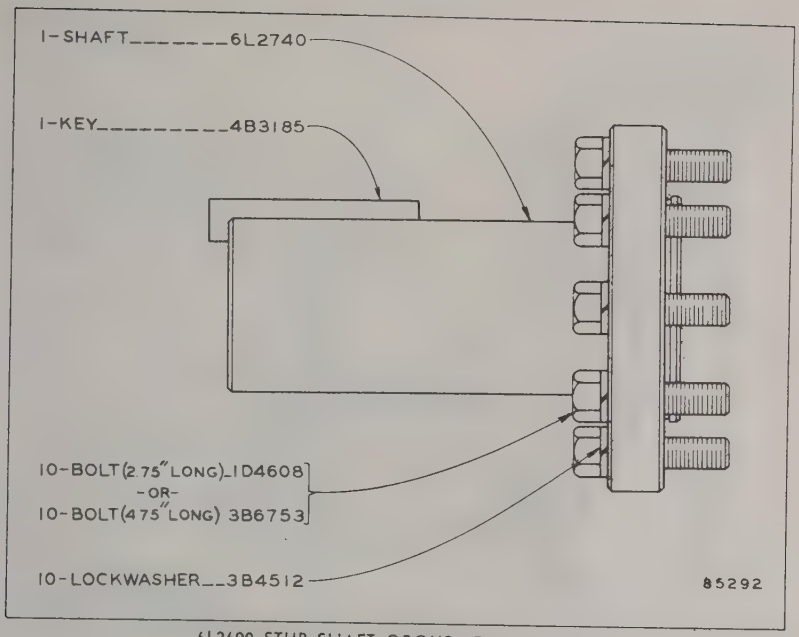
3L2981 Reduction Gear Assembly parts are shown on Pages 162 and 162A



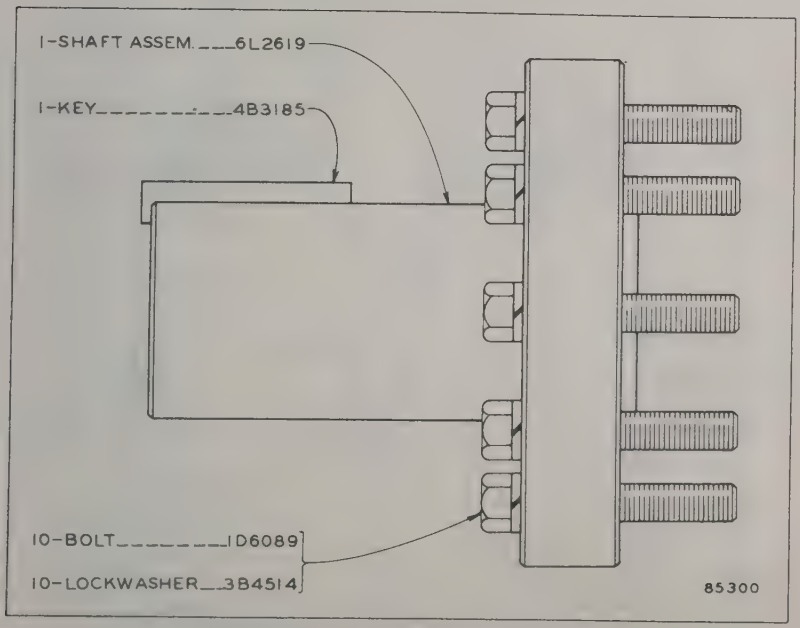

3L2981 REDUCTION GEAR ASSEMBLY—3:1 Ratio—Type 1
Specification No. 27305
Part of 6L4053 Front Power Take-Off Group shown on Page 161

3L2981 REDUCTION GEAR ASSEMBLY—3:1 Ratio—Type 2
Specification No. 27305
Part of 6L4053 Front Power Take-Off Group shown on Page 161

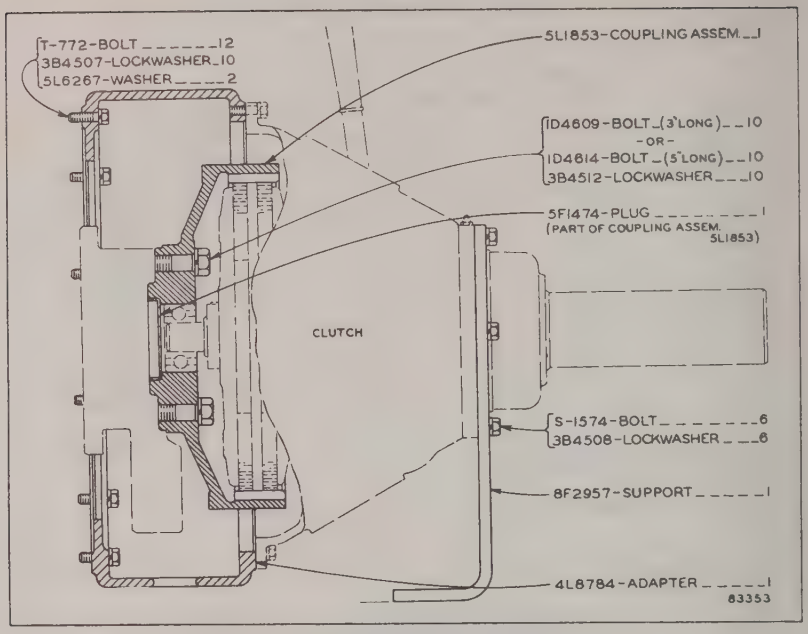




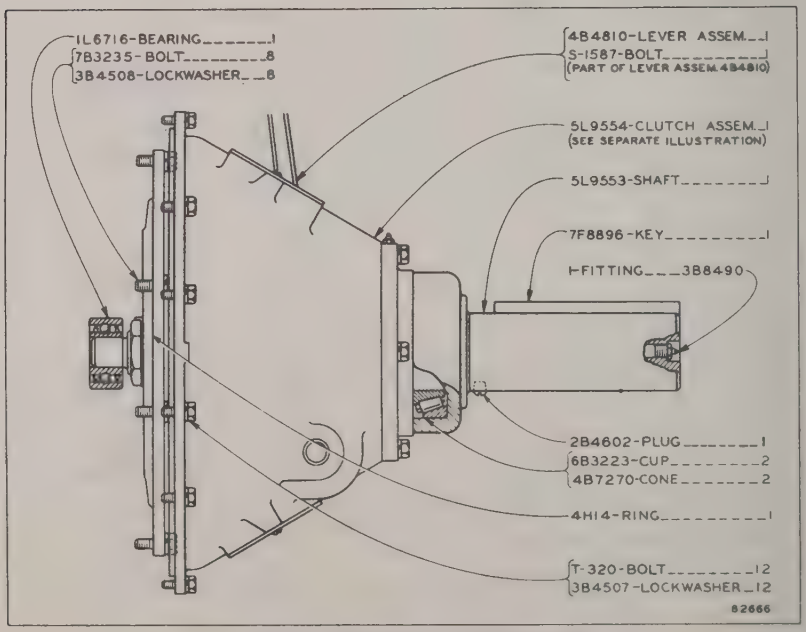

6L2690 STUB SHAFT GROUP—Front Mounted




6L2709 STUB SHAFT GROUP—Rear Mounted

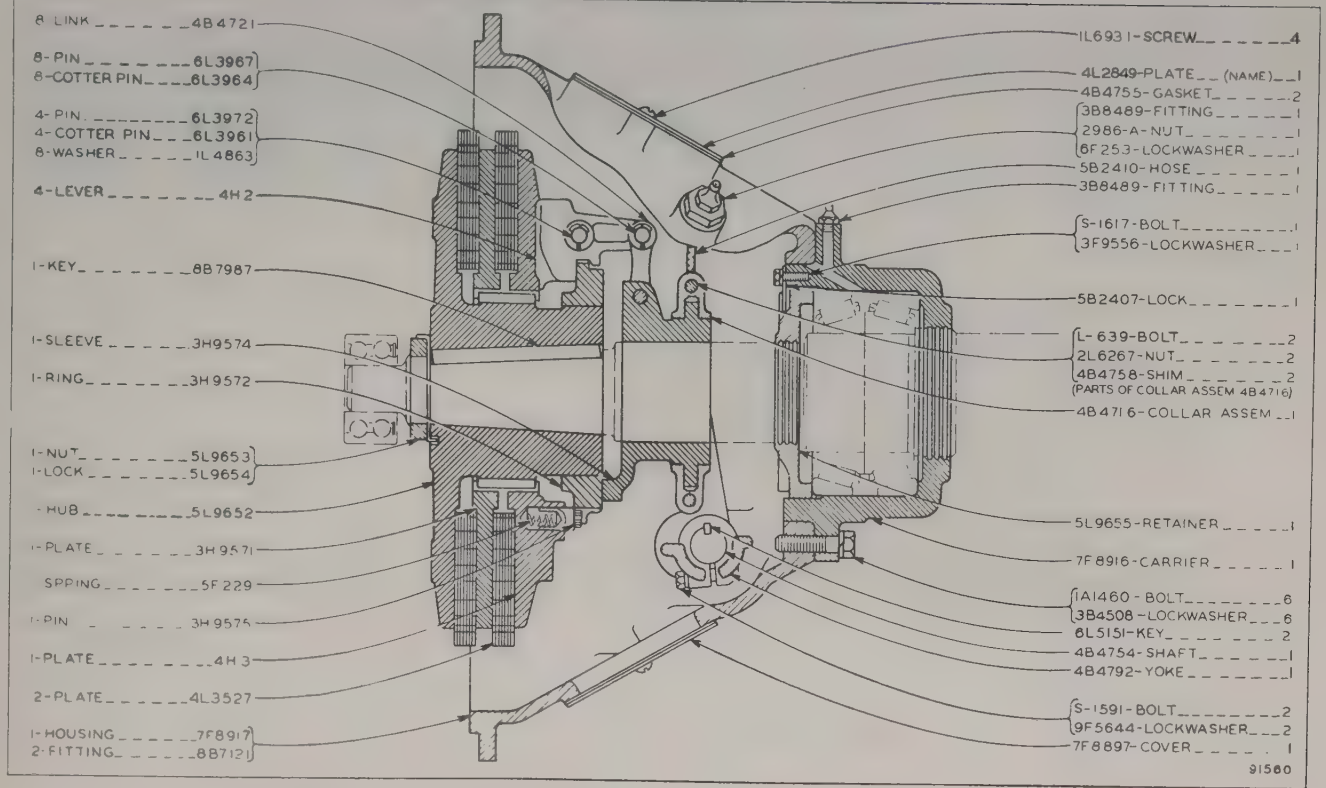



5L1862 MOUNTING GROUP
For use with 5L9572 Flywheel Clutch Group

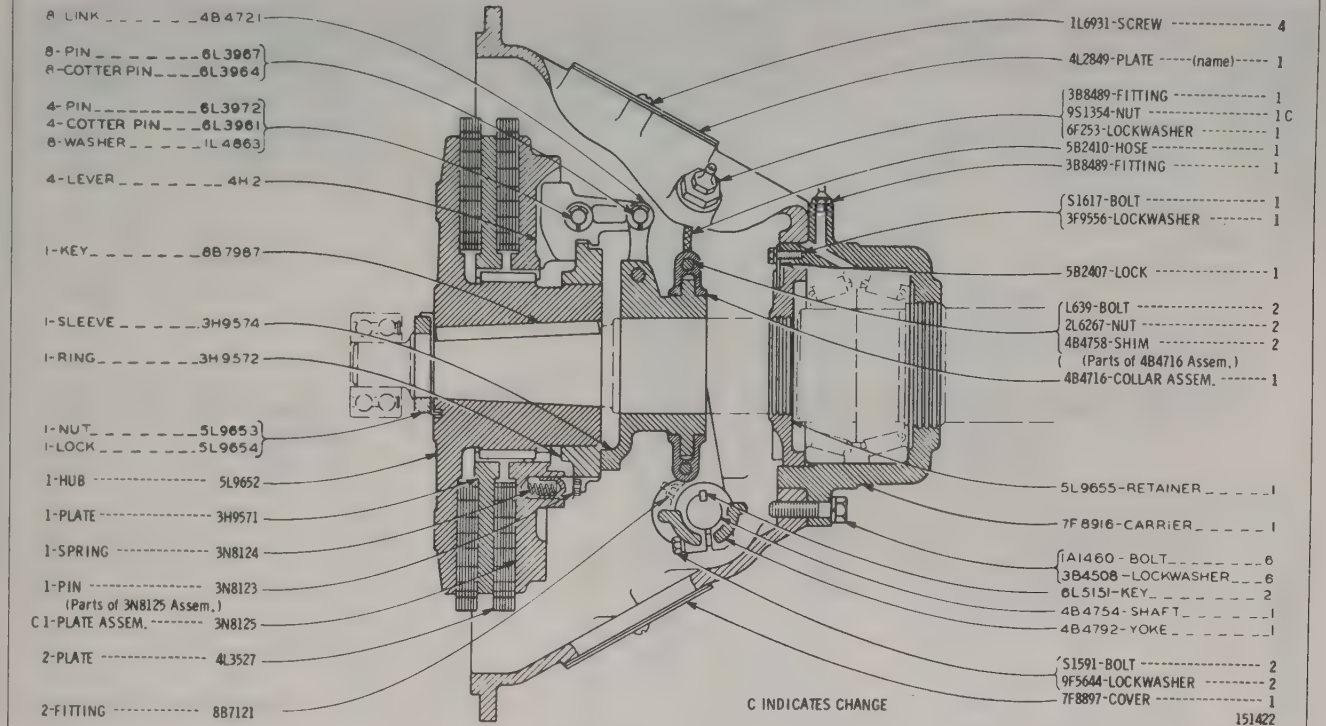


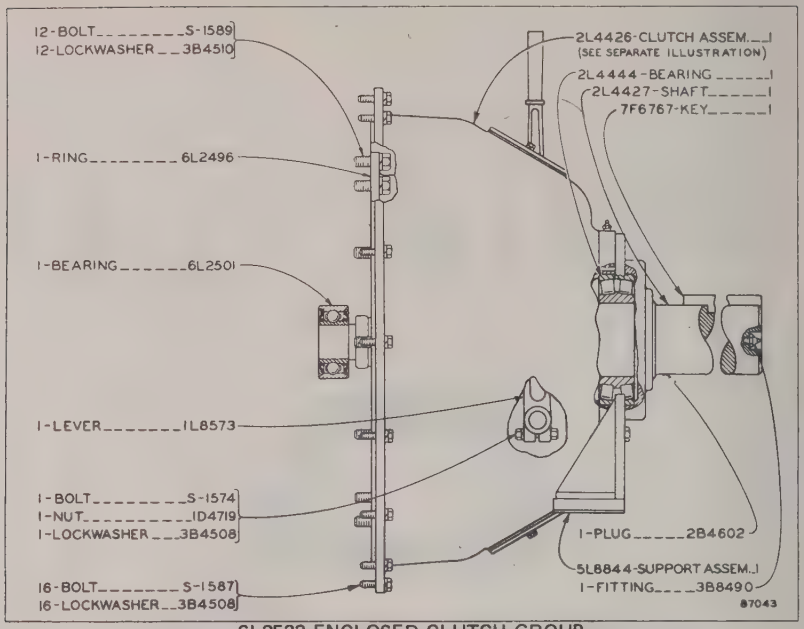

5L9572 FLYWHEEL CLUTCH GROUP
5L9554 Clutch parts are shown on Pages 165 & 165B

## 5L9554 CLUTCH ASSEMBLY—Type 1
Specification No. 29780
Part of 5L9572 Flywheel Clutch Group shown on Page 164

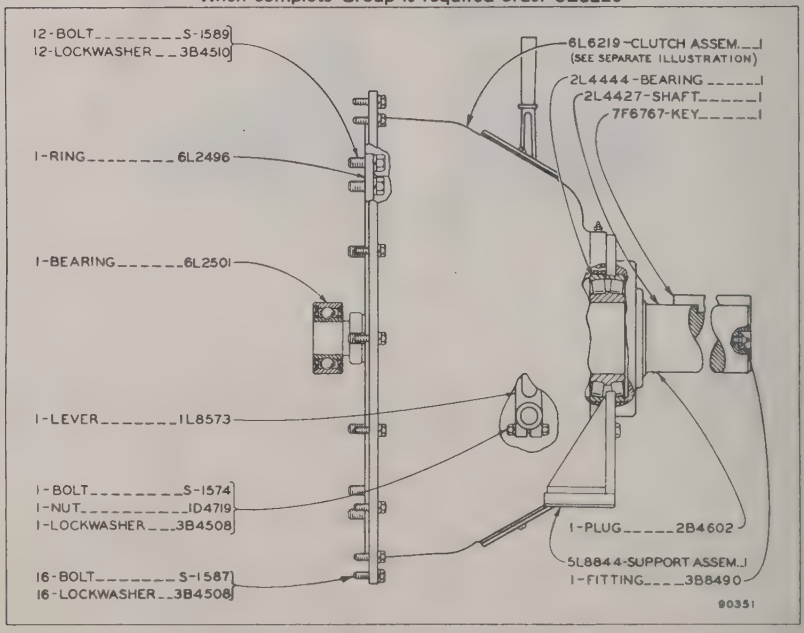


## 5L9554 CLUTCH ASSEMBLY—Type 2
Specification No. 29780
Part of 5L9572 Flywheel Clutch Group shown on Page 164

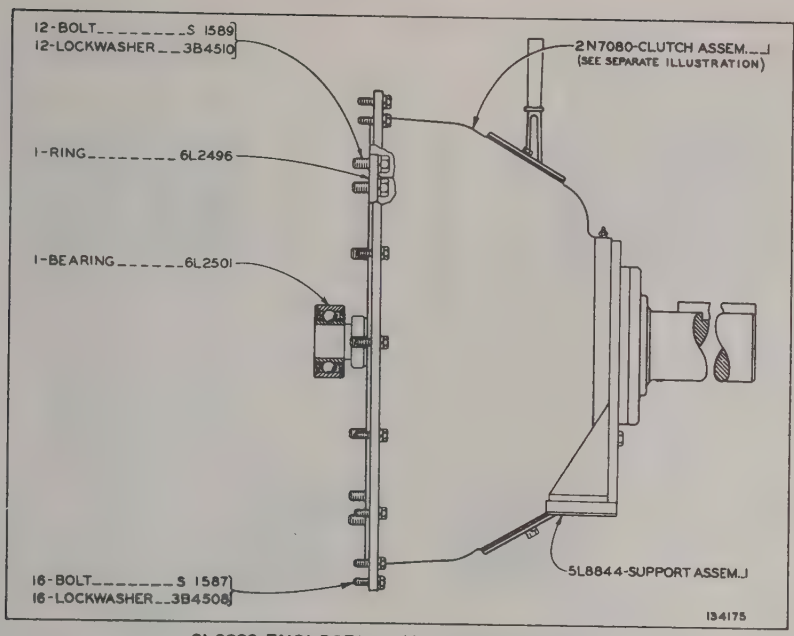




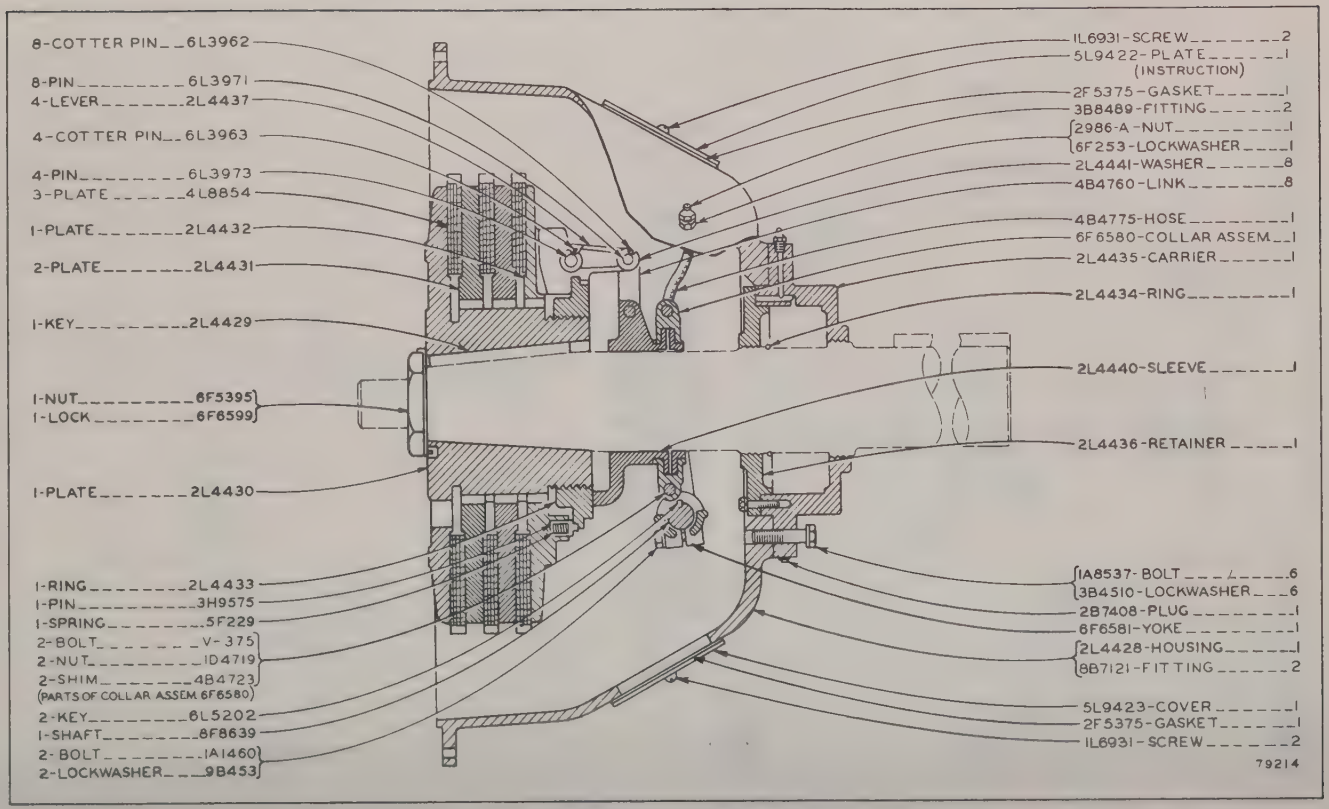

6L2522 ENCLOSED CLUTCH GROUP
FOR USE IN APPLICATIONS NOT EXCEEDING 602 H.P. FOR NORMAL DUTY
2L4426 Clutch parts are shown on Page 166B. Only separate parts serviced
When complete Group is required order 6L6220




6L6220 ENCLOSED CLUTCH GROUP—Type 1
6L6219 Clutch parts are shown on Page 167
Provides 1810 H.P. for light duty, 1343 H.P. for normal duty and
875 H.P. for heavy duty




6L6220 ENCLOSED CLUTCH GROUP—Type 2
2N7080 Clutch parts are shown on Page 168
Provides 1810 H.P. for light duty, 1343 H.P. for normal duty and
875 H.P. for heavy duty



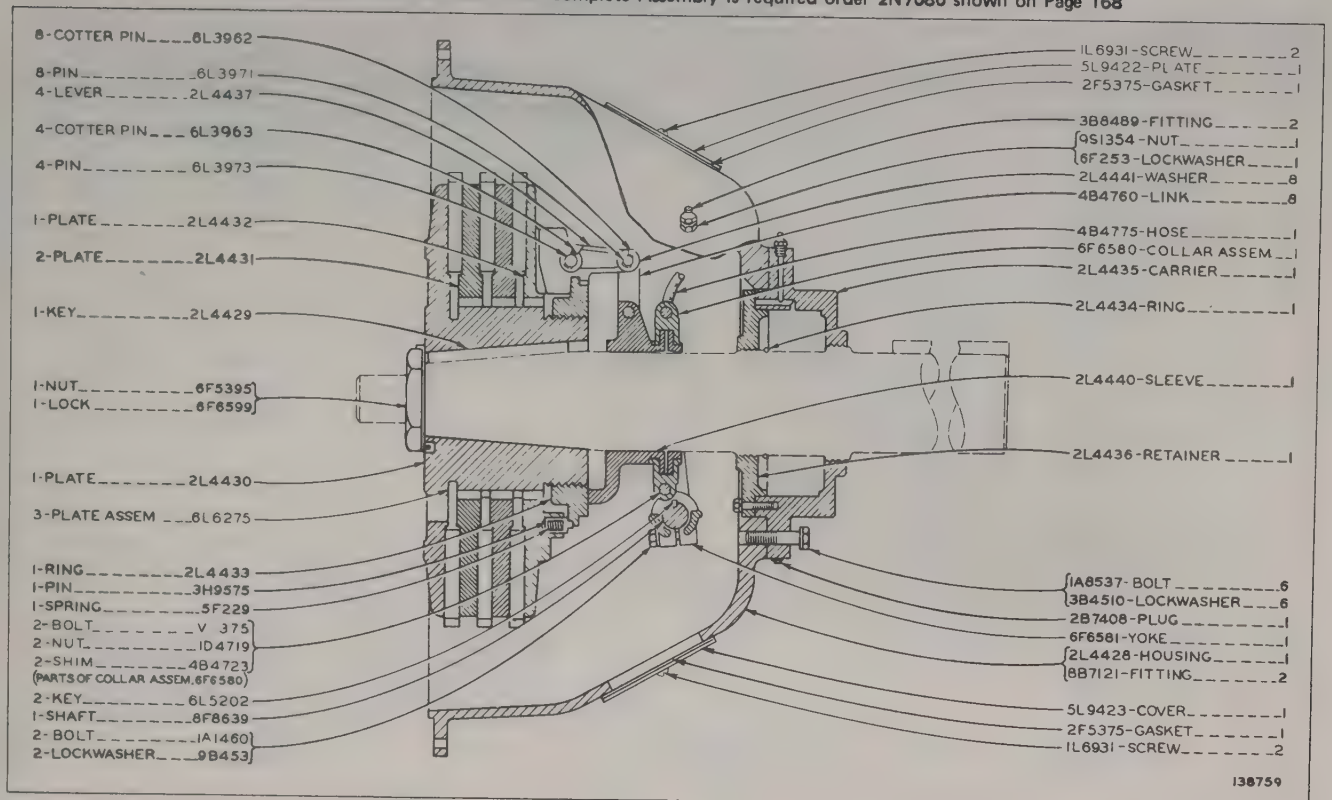

**2L4426 CLUTCH ASSEMBLY**

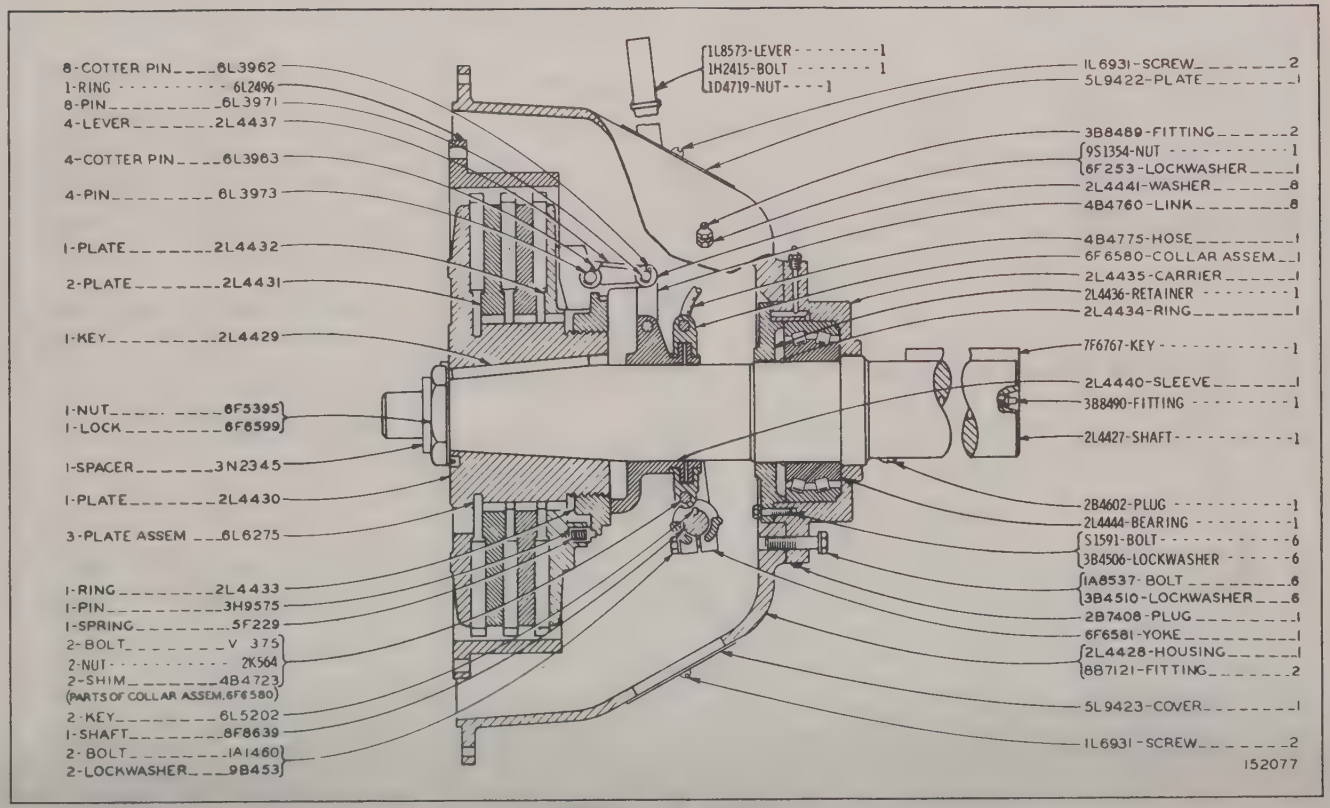
Specification No. 28142. Part of 6L2522 Enclosed Clutch Group shown on Page 166

Only separate parts serviced. When complete Assembly is required order 2N7080 shown on Page 168

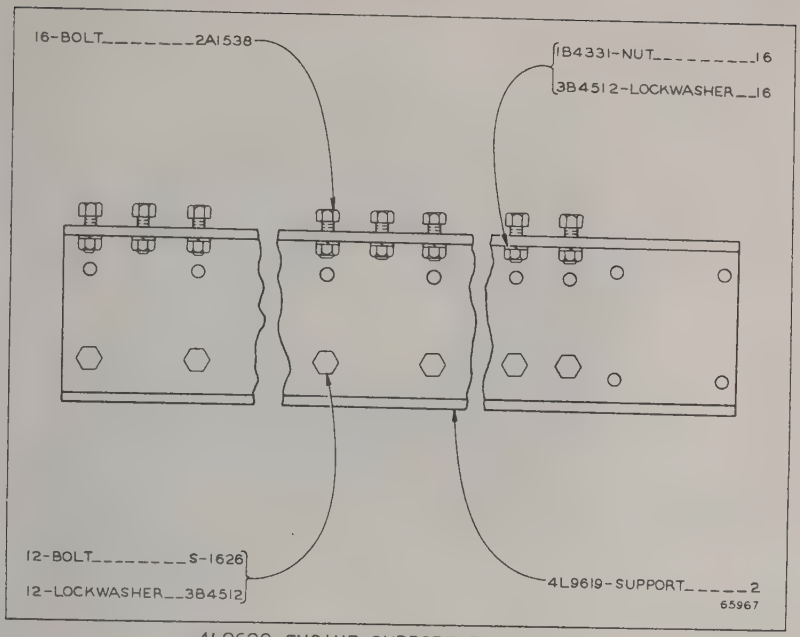
## 6L6219 CLUTCH ASSEMBLY

Specification No. 30710. Part of 6L6220 Enclosed Clutch Group shown on Page 166
Only separate parts serviced. When complete Assembly is required order 2N7080 shown on Page 168

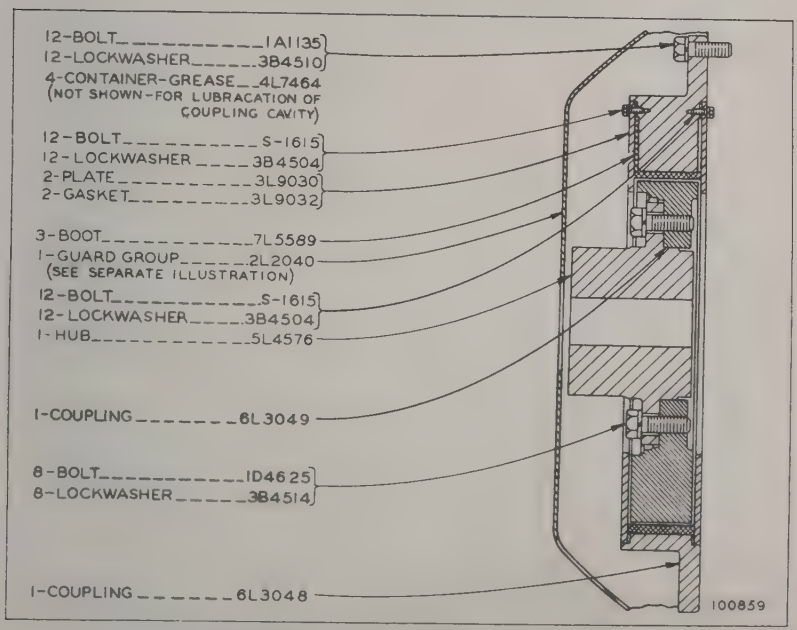





2N7080 CLUTCH ASSEMBLY
Specification No. 33599
Part of 6L6220 Enclosed Clutch Group shown on Page 166A

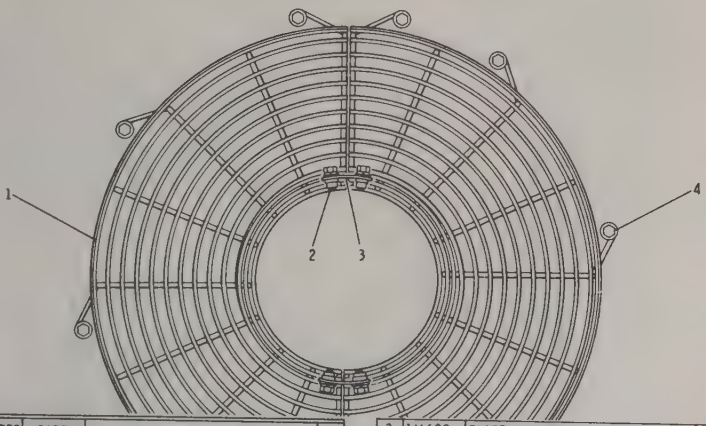



4L9620 ENGINE SUPPORT RAILS GROUP




5L3395 FLEXIBLE COUPLING GROUP

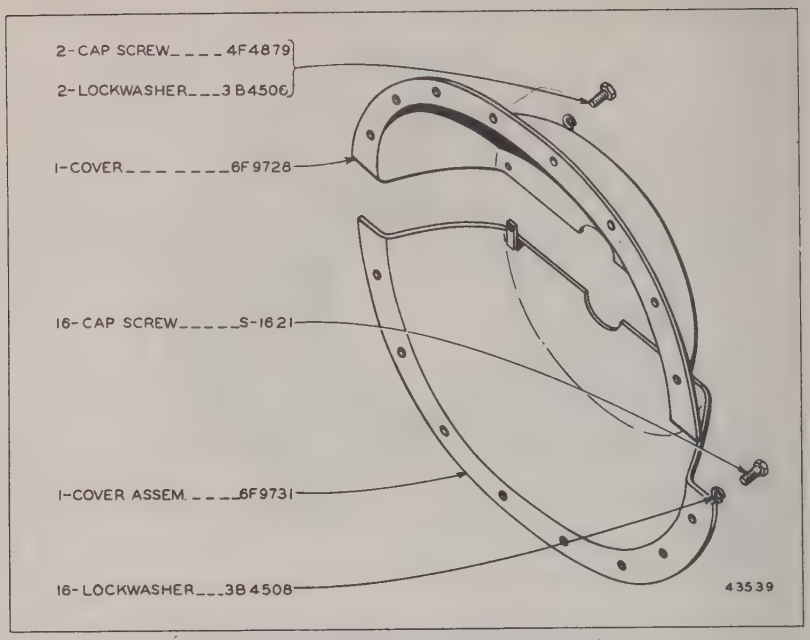
2L2040 GENERATOR COUPLING GUARD GROUP PARTS ARE SHOWN ON PAGE 170



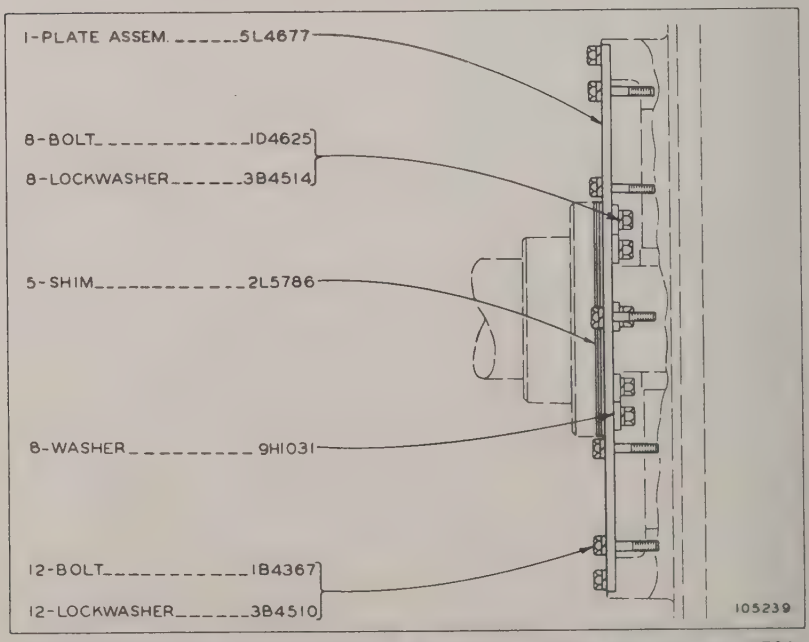

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3N5709 | GUARD ASSEM. | 2 |
| 2 | 1S1594 | BOLT | 4 |
| | 2N3385 | NUT (clip) | 4 |
| | 3B4506 | LOCKWASHER | 4 |
| | 4B5271 | WASHER | 4 |
| 3 | 1V623 | PLATE | 2 |
| 4 | 1S1621 | BOLT | 10 |
| | 3B4508 | LOCKWASHER | 10 |
| | 4B4280 | WASHER | 10 |

153626

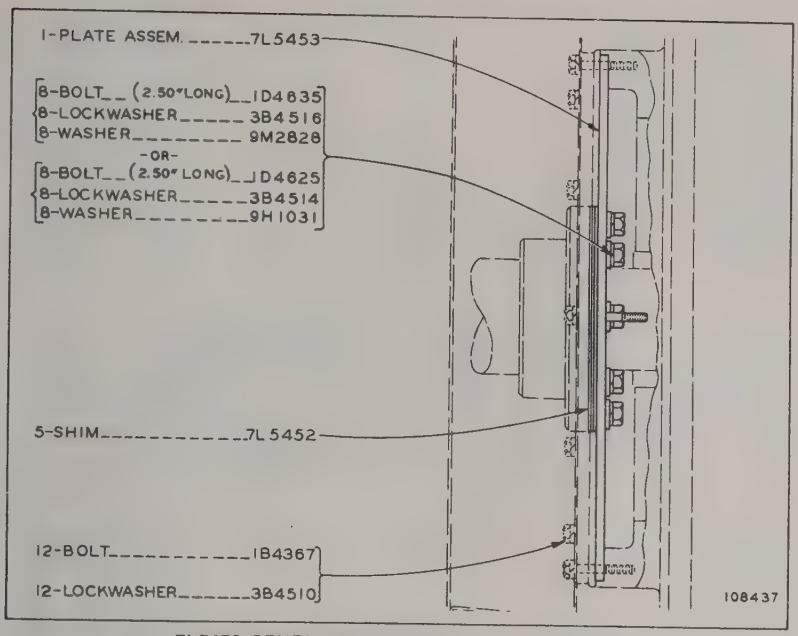
3N5765 FLYWHEEL COUPLING GUARD GROUP



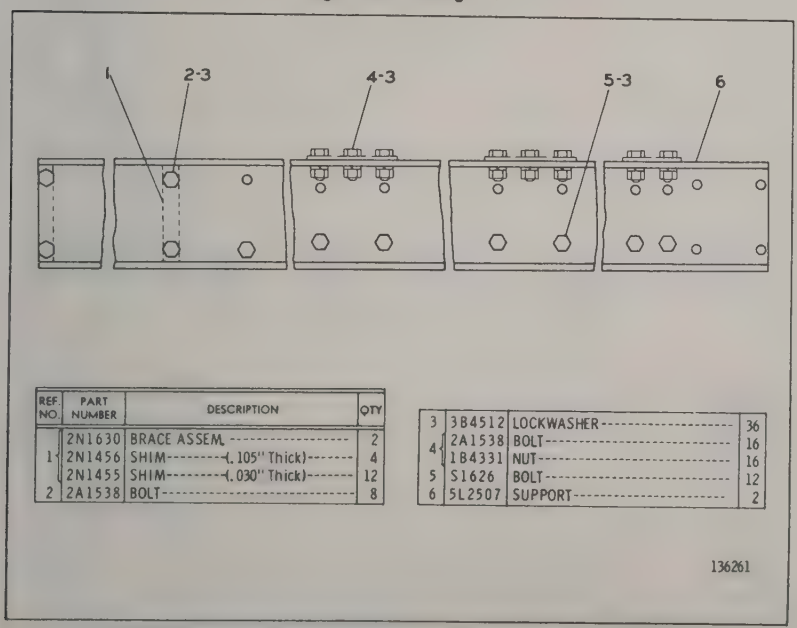

2L2040 GENERATOR COUPLING GUARD GROUP
Replaced by 3N5765 shown on Page 169B
Part of 5L3395 Flexible Coupling Group shown on Page 169




5L2487 GENERATOR COUPLING GROUP—Replaced by 7L5479 shown on Page 170A
Part of 5L2462 Generator Installation Arrangement shown on Page 170B

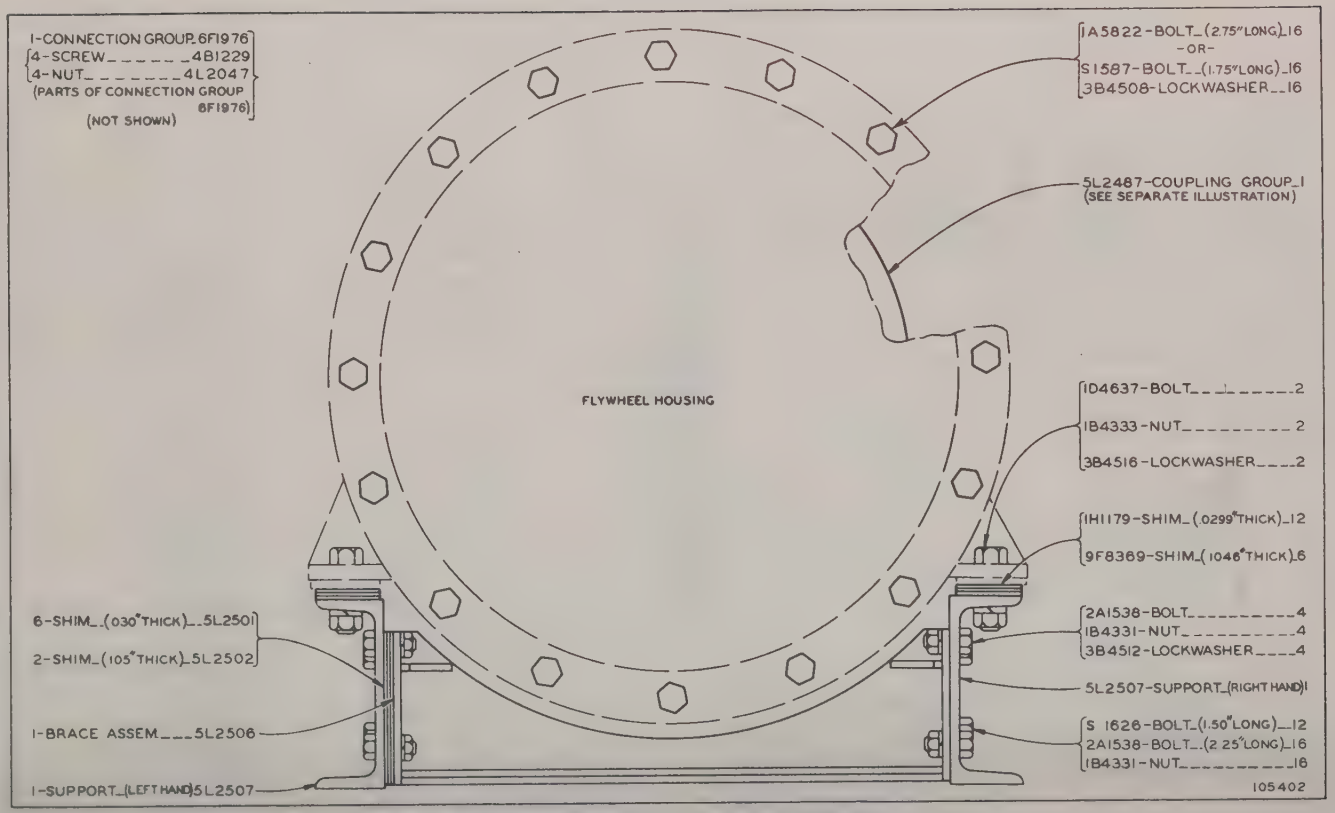



**7L5479 GENERATOR DRIVE COUPLING GROUP**
Part of 5L2462 Generator Installation Arrangements listed on Pages 170C through 171




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2N1630 | BRACE ASSEM. | 2 |
| | 2N1456 | SHIM--------(.105" Thick)------- | 4 |
| | 2N1455 | SHIM--------(.030" Thick)------- | 12 |
| 2 | 2A1538 | BOLT | 8 |
| 3 | 3B4512 | LOCKWASHER | 36 |
| 4 | 2A1538 | BOLT | 16 |
| | 1B4331 | NUT | 16 |
| 5 | S1626 | BOLT | 12 |
| 6 | 5L2507 | SUPPORT | 2 |

**2N3910 ENGINE AND GENERATOR SUPPORT RAILS GROUP**
Also part of 5L2462 Generator Installation Arrangement shown on Page 171

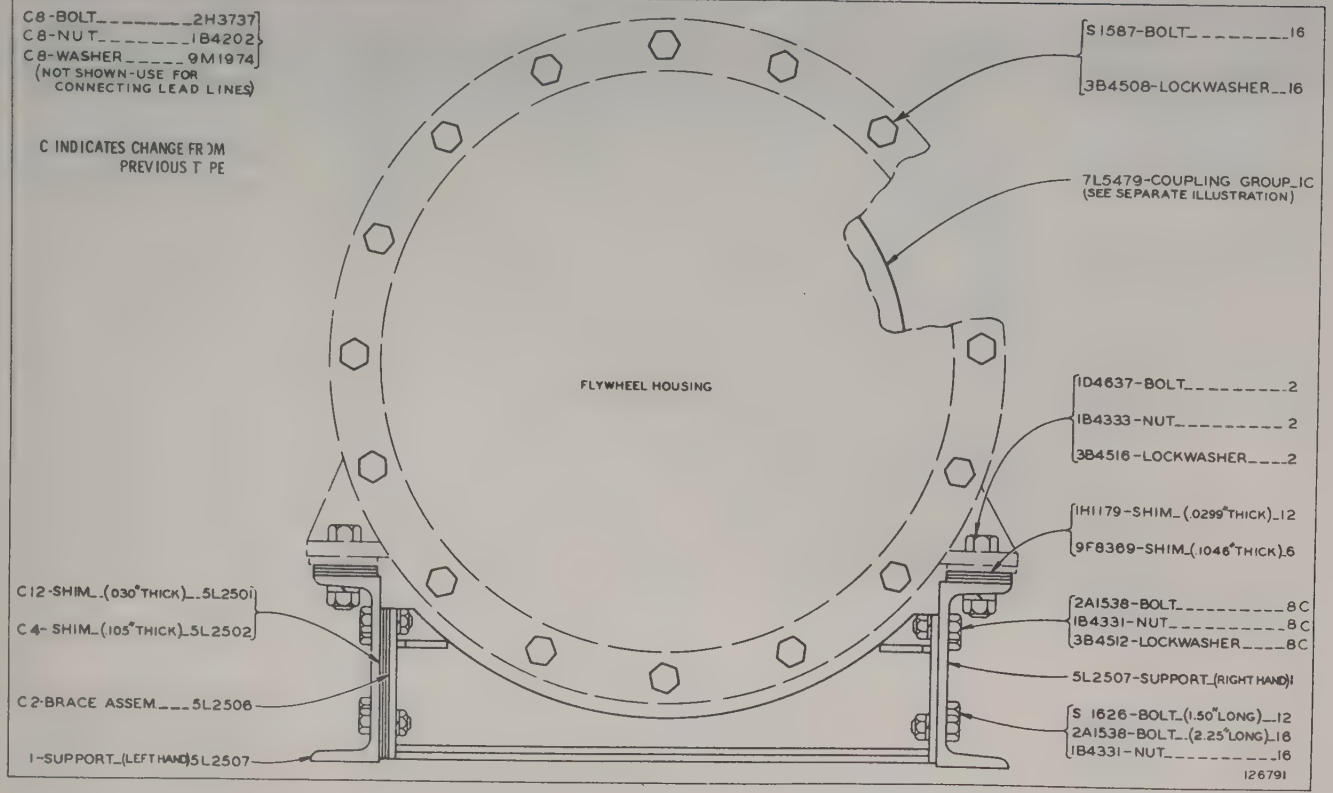


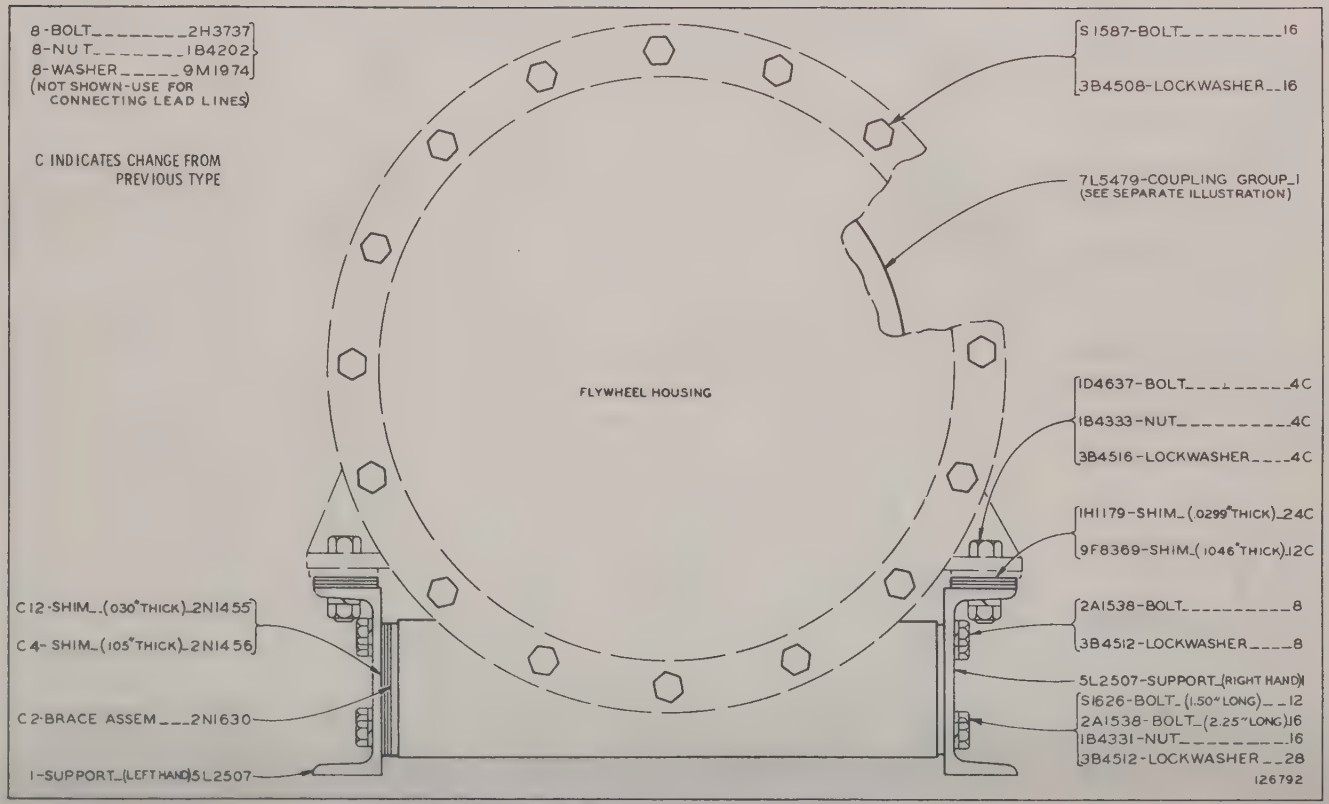

5L2462 GENERATOR INSTALLATION ARRANGEMENT—Type 1

5L2487 Coupling parts are shown on Page 170

## 5L2462 GENERATOR INSTALLATION ARRANGEMENT—Type 2

7L5479 Coupling parts are shown on Page 170A



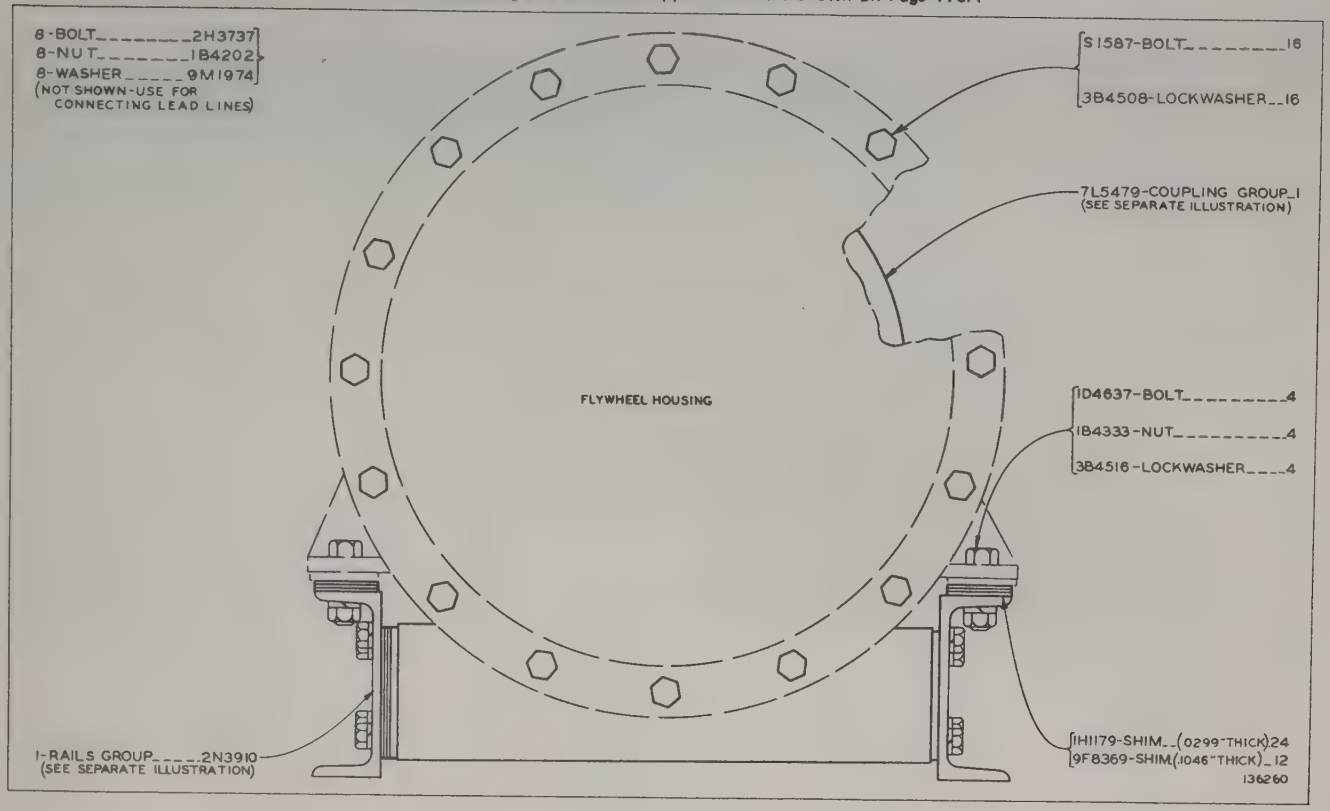



**5L2462 GENERATOR INSTALLATION ARRANGEMENT—Type 3**

7L5479 Coupling parts are shown on Page 170A

## 5L2462 GENERATOR INSTALLATION ARRANGEMENT—Type 4

7L5479 Coupling and 2N3910 Support Rails are shown on Page 170A



## REPLACEMENT PARTS FOR GENERATORS

Only those generators which are sold and serviced exclusively by "Caterpillar" Dealers are illustrated on the following pages.

Externally-regulated "Caterpillar" Diesel Electric Sets are equipped with generators made by other manufacturers. Parts for these generators are NOT serviced by Caterpillar Tractor Co. Parts lists and parts should be ordered from the manufacturer whose name is shown on the Generator Name Plate, always giving the generator rating and serial number shown.

## PIECES DE RECHANGE POUR GENERATRICES

Dans les pages suivantes, nous ne décrivons que les génératrices constante dont la vente et la réparation est assurée par les concessionnaires Caterpillar.

Les Groupes électrogènes Caterpillar à régulation externe sont équipés de génératrices fabriquées par d'autres constructeurs. Les pièces pour ces génératrices ne sont pas fournies par Caterpillar Tractor Co. Il convient donc de s'adresser au constructeur dont le nom figure sur la plaque de la génératrice pour toutes les listes de pièces et pour les commandes de pièces, en indiquant la puissance et le numéro de série de la génératrice.

## REPUESTOS PARA GENERADORES

En las páginas siguientes solamente se ilustran los generadores que son vendidos y reparados exclusivamente por los Distribuidores Caterpillar.

Los Grupos Electrógenos "Caterpillar" de regulación externa están equipados con generadores de otros fabricantes. Caterpillar Tractor Co. no suministra repuestos para estos generadores. Las listas de repuestos y los repuestos mismos deberán pedirse al fabricante cuyo nombre aparece en la placa de identificación del generador, indicando siempre la capacidad de éste y su número de serie indicado.

## PECAS DE SUBSTITUICAO PARA GERADORES

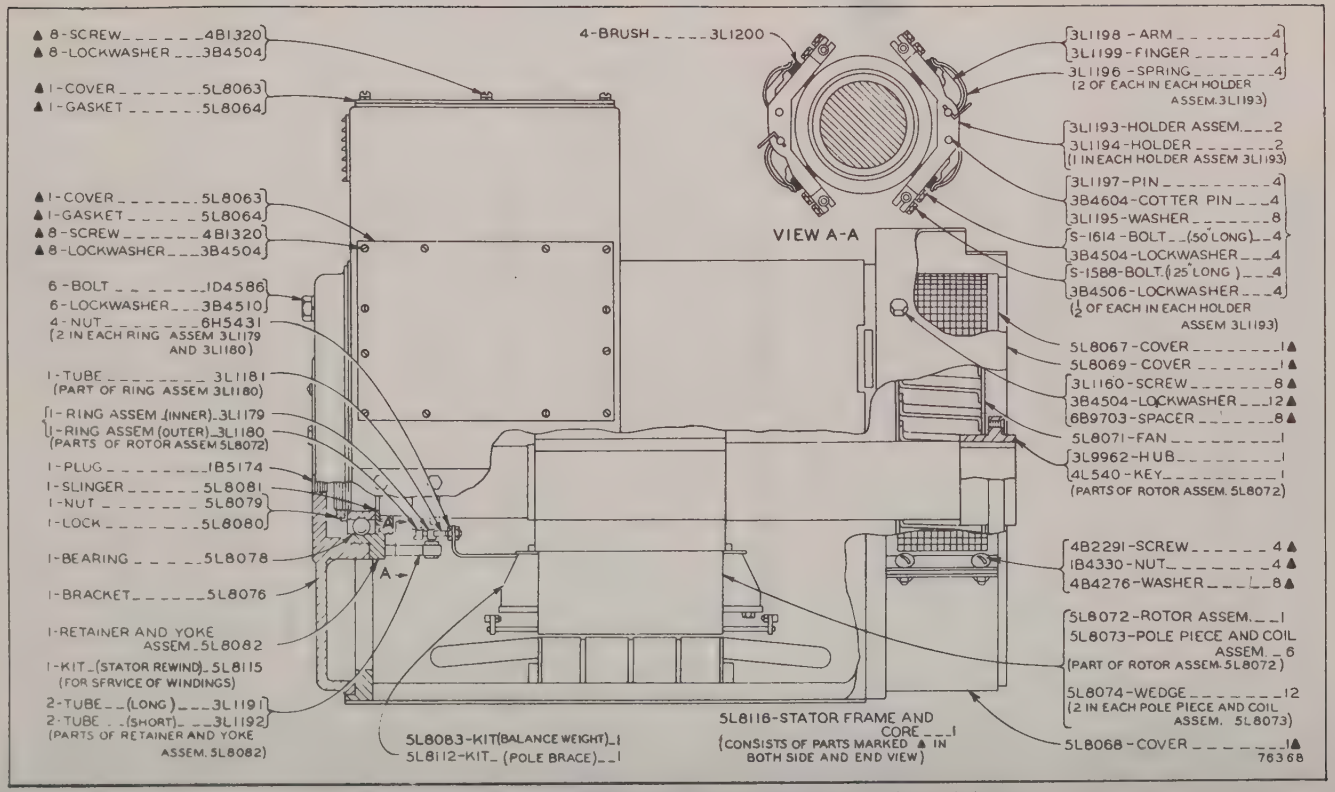
Estão ilustrados nas páginas seguintes sòmente os geradores vendidos e assistidos exclusivamente pelos revendedores Caterpillar.

As peças de substituição para os geradores dos Grupos Eletrógenos Caterpillar regulados externamente são fabricadas por outras firmas e não são fornecidas pela Caterpillar Tractor Co. Para obter qualquer delas, bem como os catálogos de peças, dirija-se à firma cujo nome aparece na chapa de identificação do gerador, acrescentando no pedido as especificações e o número de série do gerador.

## ERSATZTEILE FÜR GENERATOREN

Nur diejenigen Generatoren welche ausschliesslich von CATERPILLAR Händlern verkauft und gewartet werden, sind auf den folgenden Seiten dargestellt.

Caterpillar Dieselstromaggregate mit Fremdregelung sind mit Generatoren ausgerüstet, die von anderen Herstellern erzeugt werden. Ersatzteile für solche Generatoren werden NICHT auf Grund von Caterpillar Ersatzteillisten geliefert, sondern müssen jeweils bei dem auf dem Firmenschild angegebenen Hersteller des Generators unter Angabe der Leistung und Seriennummer desselben bestellt werden.




5L4043 GENERATOR—240-480 Volt—60 Cycle at 1200 R.P.M., 3 Phase—Side View

— or —

5L4043 GENERATOR—200-400 Volt—50 Cycle at 1000 R.P.M., 3 Phase—Side View

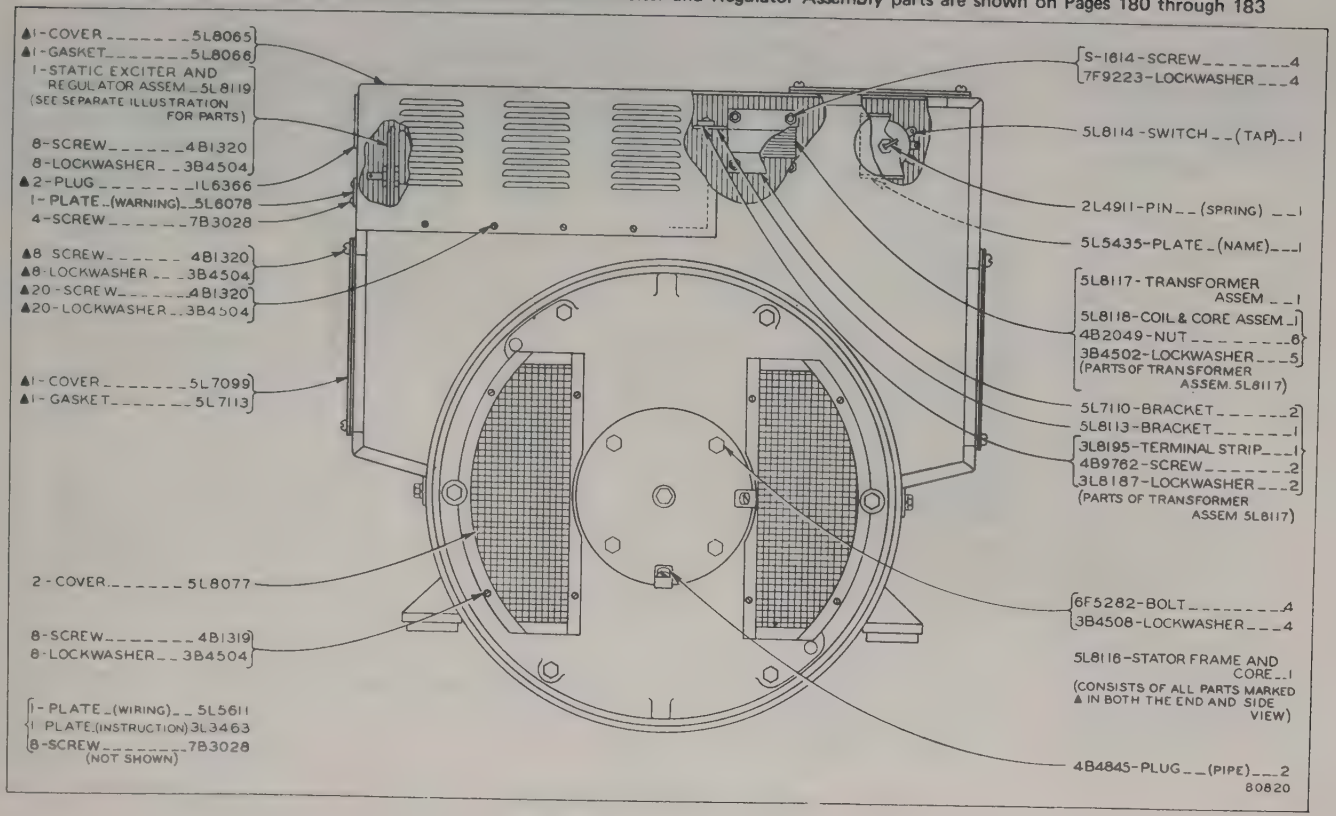
Effective with Generator Serial No. 500SH1

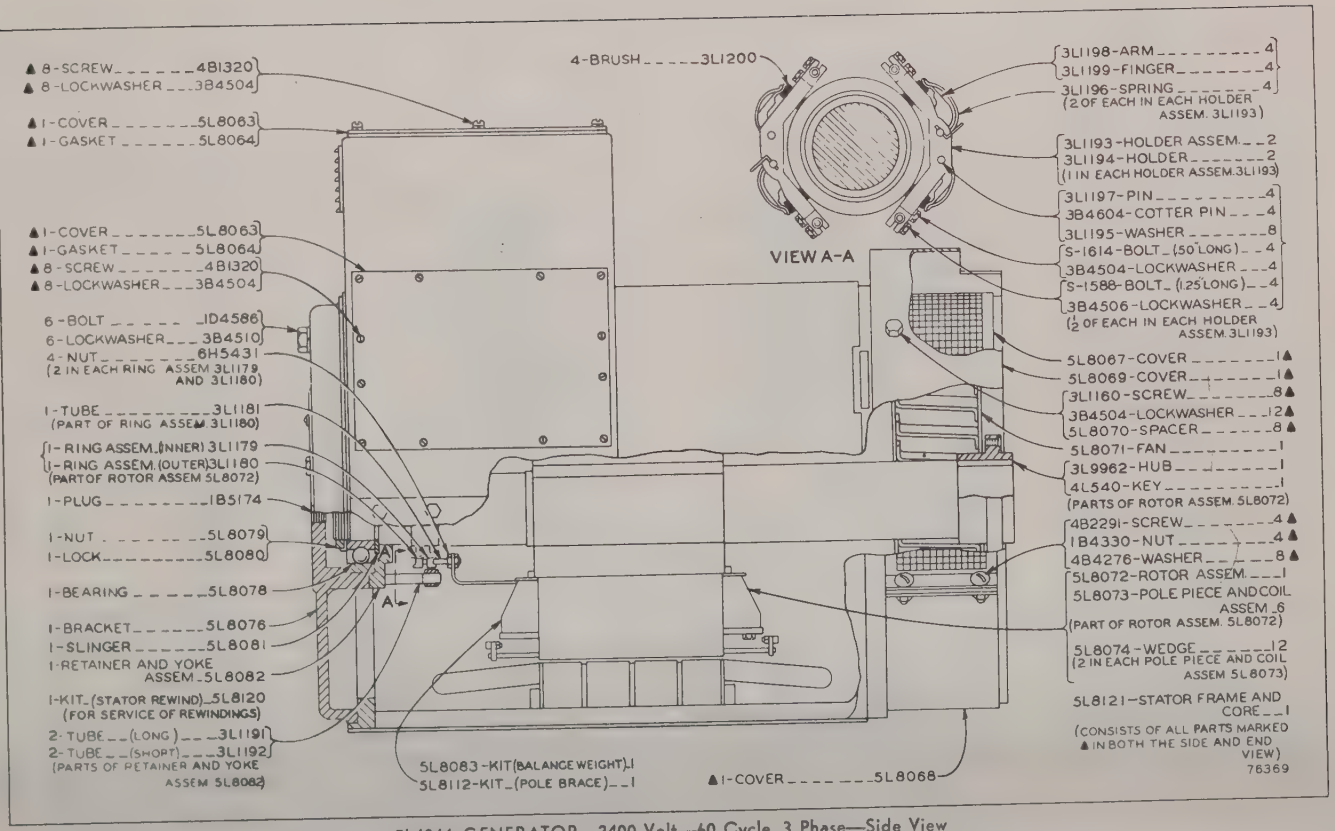
5L4043 GENERATOR—200-400 Volt—50 Cycle at 1200 R.P.M., 3 Phase—End View

—or—

5L4043 GENERATOR—200-400 Volt—50 Cycle at 1000 R.P.M., 3 Phase—End View

Effective with Generator Serial No. 500SH1. 5L8119 Static Exciter and Regulator Assembly parts are shown on Pages 180 through 183



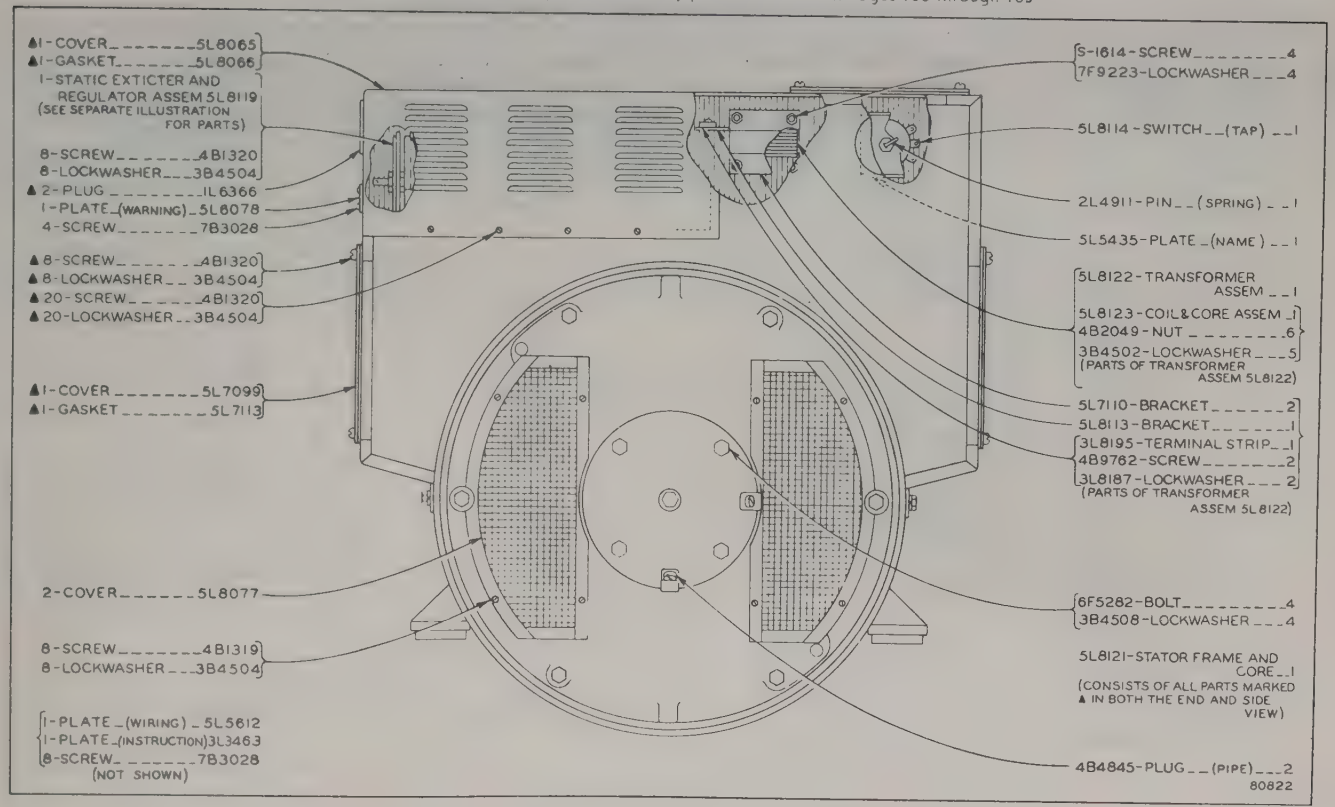


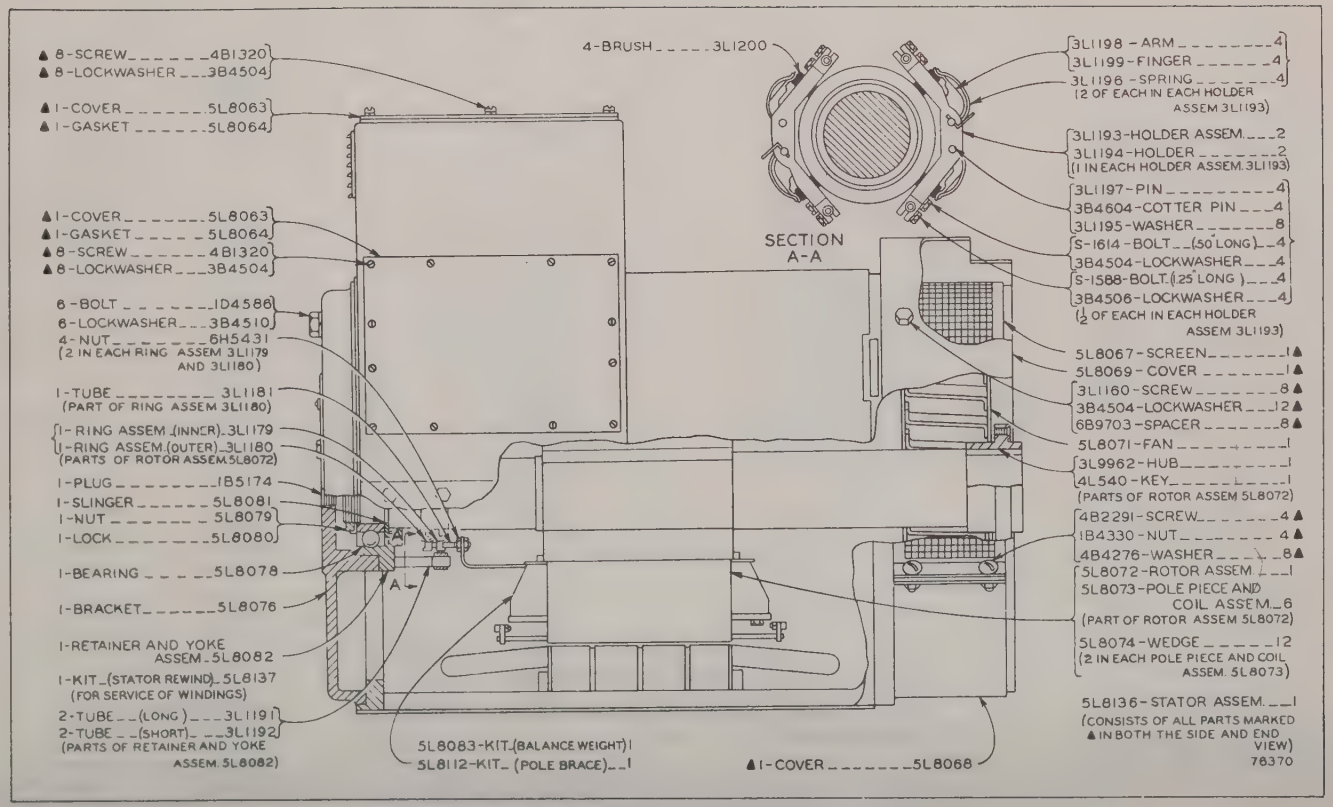

5L4044 GENERATOR—2400 Volt—60 Cycle, 3 Phase—Side View
Effective with Generator Serial No. 500SN1

## 5L4044 GENERATOR—2400 Volt—60 Cycle, 3 Phase—End View

Effective with Generator Serial No. 500SN1

5L8119 Static Exciter and Regulator Assembly parts are shown on Pages 180 through 183



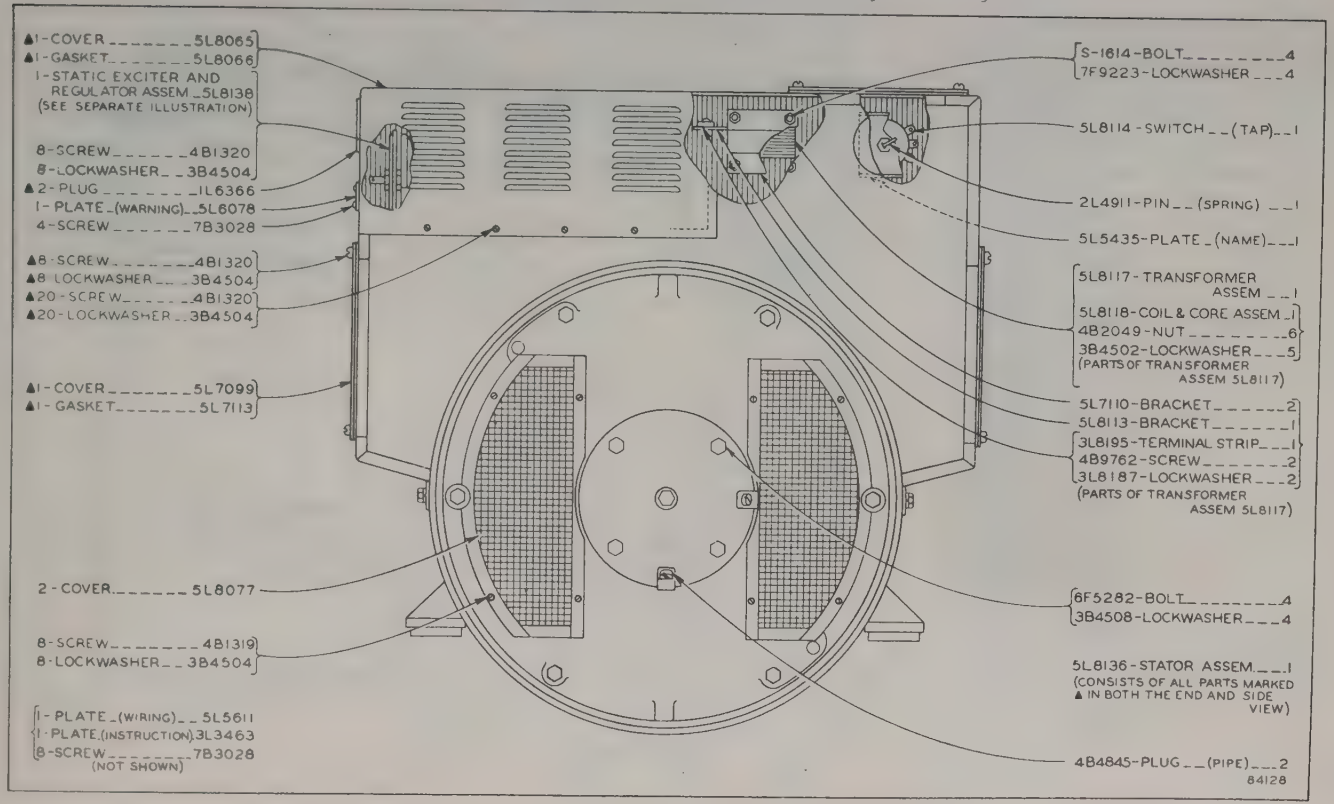


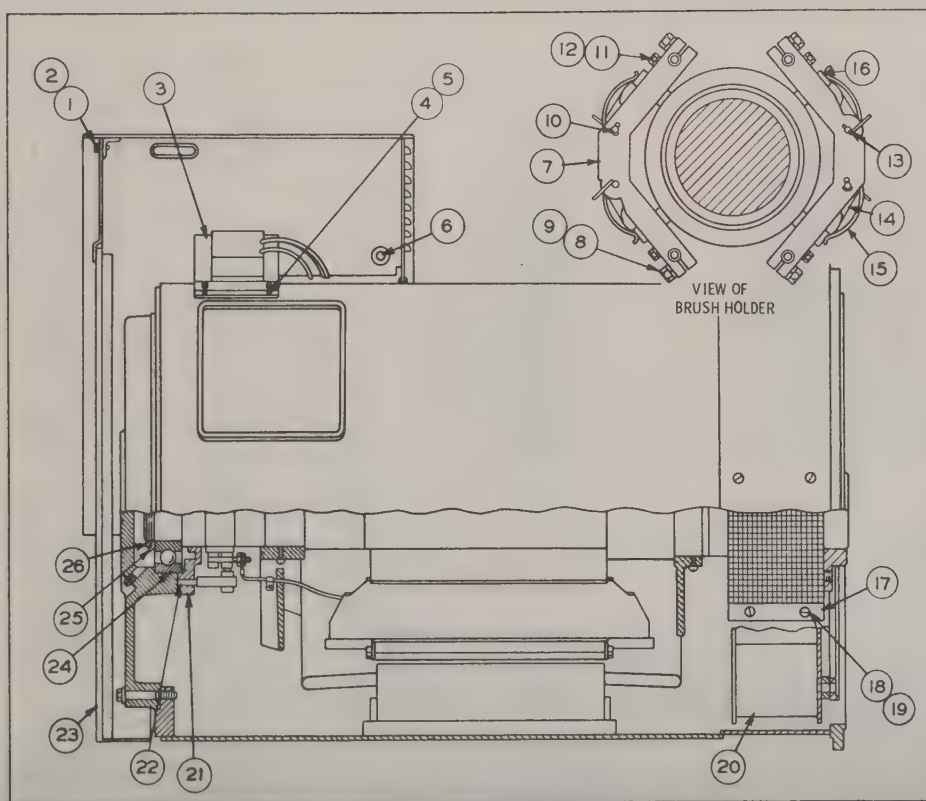

**5L7968 GENERATOR—240-480 Volt—50 Cycle, 3 Phase—Side View**
Effective with Generator Serial No. 499SG1

## 5L7968 GENERATOR—240-480 Volt—50 Cycle, 3 Phase—End View

Effective with Generator Serial No. 499SG1

5L8138 Static Exciter and Regulator Assembly parts are shown on Pages 184 through 187



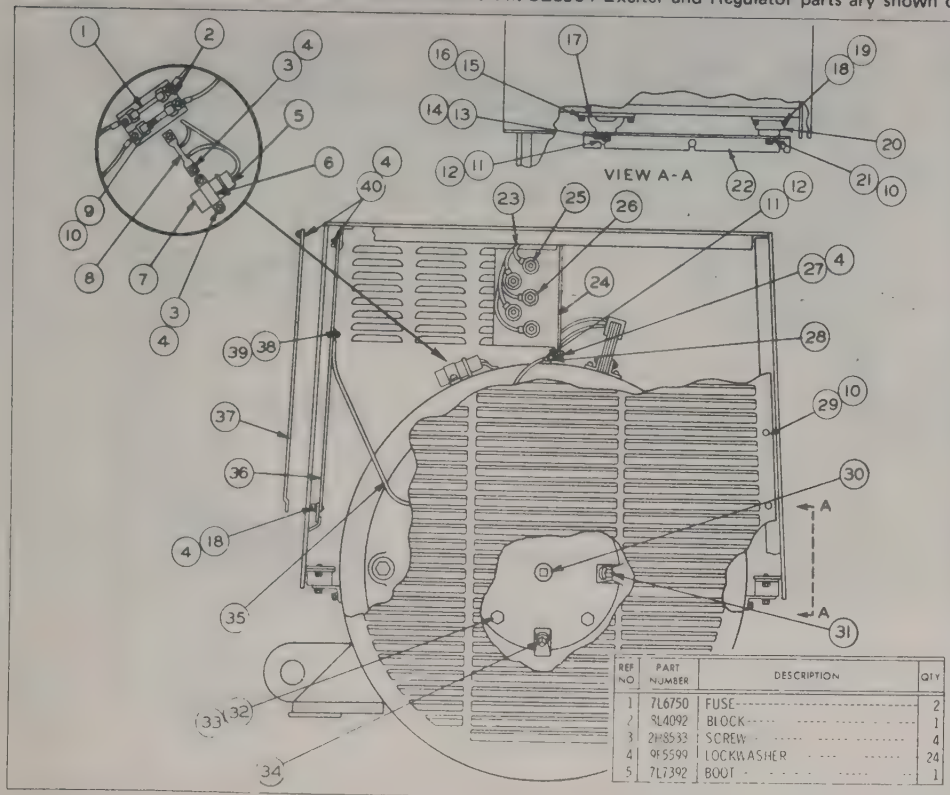



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2D6249 | SCREW | 6 |
| 2 | 7F9223 | LOCKWASHER | 6 |
| 3 | 7L7394 | TRANSFORMER ASSEM. | 1 |
| 4 | 9F9327 | SCREW | 4 |
| 5 | 9F5599 | LOCKWASHER | 4 |
| 6 | 8L3948 | GROMMET | 1 |
| 7 | 3L1193 | HOLDER ASSEM. | 2 |
| | 3L1194 | HOLDER | 2 |
| 8 | S-1588 | BOLT | 4 |
| 9 | 3B4506 | LOCKWASHER | 4 |
| 10 | 3B4604 | COTTER PIN | 4 |
| 11 | S-1614 | BOLT | 4 |
| 12 | 3B4504 | LOCKWASHER | 4 |
| 13 | 8L4083 | PIN AND ARM ASSEM. | 4 |
| | 3L1195 | WASHER | 8 |
| 14 | 3L1199 | FINGER | 4 |
| 15 | 3L1196 | SPRING | 4 |
| | (One half each in 3L1193 Holder Assem.) | | |
| 16 | 3L1200 | BRUSH | 4 |
| 17 | 8L4081 | SCREEN | 1 |
| 18 | 2H3755 | BOLT | 4 |
| 19 | 1H7186 | LOCKWASHER | 4 |
| 20 | 8L4084 | FAN ASSEM. | 1 |
| 21 | 3L1190 | RETAINER AND YOKE ASSEM. | 1 |
| | 3L1191 | TUBE (Long) | 2 |
| 22 | 3L1192 | TUBE (Short) | 2 |
| | (Parts of 3L1190 Retainer and Yoke Assem.) | | |
| 23 | 8L4089 | COVER ASSEM. | 1 |
| 24 | 3L1186 | BEARING | 1 |
| 25 | 3L1188 | LOCK | 1 |
| 26 | 5L7333 | NUT | 1 |

**7L36 GENERATOR—3 Phase—Part 1 of 3**
**Generator Serial No. 500TH1 to 500TH1499 inclusive**
**230-460 Volt, 60 hertz at 1200 R.P.M. or 200-400 Volt, 50 hertz at 1000 R.P.M.**

## 7L36 GENERATOR—3 Phase—Part 2 of 3

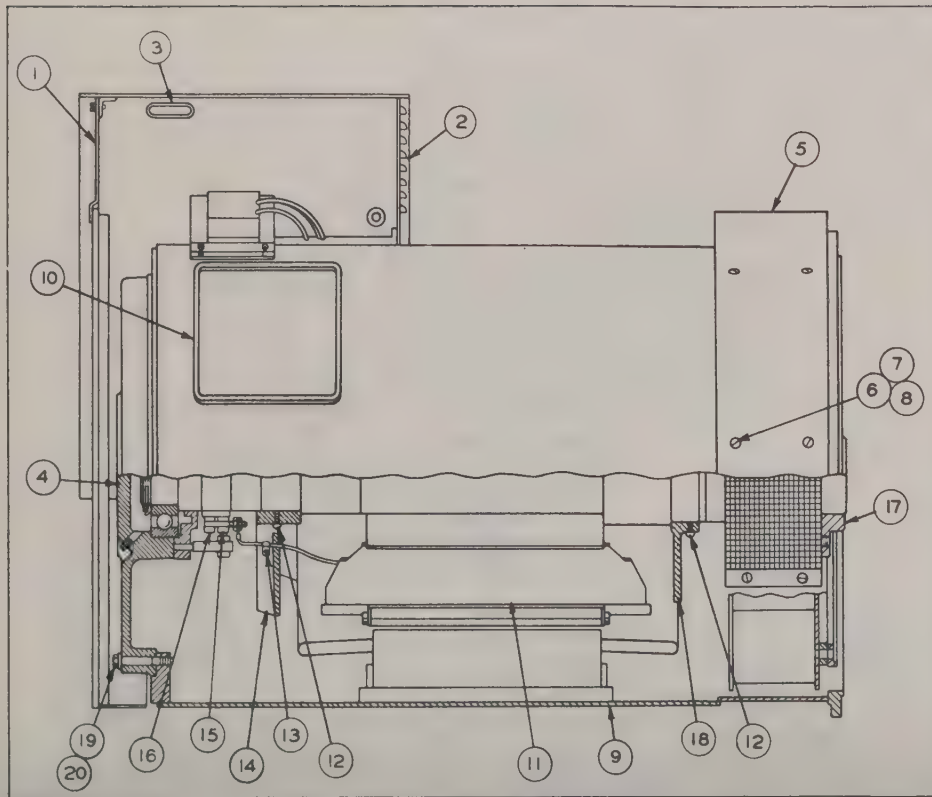
Generator Serial No. 500TH1 to 500TH1499 inclusive. 230-460 Volt, 60 hertz at 1200 R.P.M. or 200-400 Volt, 50 hertz at 1000 R.P.M. 8L3904 Exciter and Regulator parts ary shown on Pages 187A and 187B




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L6750 | FUSE | 2 |
| 2 | 8L4092 | BLOCK | 1 |
| 3 | 2H8533 | SCREW | 4 |
| 4 | 9F5599 | LOCKWASHER | 24 |
| 5 | 7L7392 | BOOT | 1 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 6 | 7L7402 | STRAP | 1 |
| 7 | 7L7400 | CAPACITOR | 1 |
| 8 | 7L7397 | RESISTOR ASSEM. | 1 |
| 9 | 4B1258 | SCREW | 2 |
| 10 | 7F9223 | LOCKWASHER | 12 |
| 11 | 2H3755 | BOLT | 7 |
| 12 | 1H7186 | LOCKWASHER | 7 |
| 13 | 6L6659 | BOLT | 2 |
| 14 | 9F5601 | LOCKWASHER | 2 |
| 15 | 4F4879 | BOLT | 4 |
| 16 | 8F3590 | LOCKWASHER | 4 |
| 17 | 8L3905 | SHOCKMOUNT | 2 |
| 18 | 9F9327 | SCREW | 12 |
| 19 | 8F1434 | LOCKWASHER | 8 |
| 20 | 7L227 | SHOCKMOUNT—(Right Hand) | 1 |
| | 7L228 | SHOCKMOUNT—(Left Hand) | 1 |
| 21 | S 1614 | BOLT | 2 |
| 22 | 8L4094 | BRACKET—(Right Hand) | 1 |
| | 8L4075 | BRACKET—(Left Hand) | 1 |
| 23 | 8L4865 | HARNESS | 1 |
| 24 | 7L6827 | NOISE SUPPRESSION ASSEM. | 1 |
| 25 | 1B4330 | NUT | 6 |
| | 3B4504 | LOCKWASHER | 6 |
| 26 | 1D4717 | NUT | 4 |
| | 3B4506 | LOCKWASHER | 4 |
| | | (Parts of 7L6827 Noise Suppression Assem.) | |
| 27 | 6L7104 | SCREW | 8 |
| 28 | 7L4206 | STRAP | 1 |
| 29 | 2D6249 | SCREW | 8 |
| 30 | 1B5174 | PLUG | 1 |
| 31 | 2B7408 | PLUG | 1 |
| 32 | 2B2006 | BOLT | 4 |
| 33 | 3B4508 | LOCKWASHER | 4 |
| 34 | 2B7409 | PLUG | 1 |
| 35 | 8L4091 | CABLE ASSEM. | 1 |
| 36 | 8L3904 | EXCITER & REGULATOR ASSEM. (See Separate Illustration) | 1 |
| 37 | 8L4088 | COVER | 1 |
| 38 | 4B1220 | SCREW | 1 |
| 39 | 9R7233 | LOCKWASHER | 1 |
| 40 | 3K8190 | SCREW | 8 |

125598

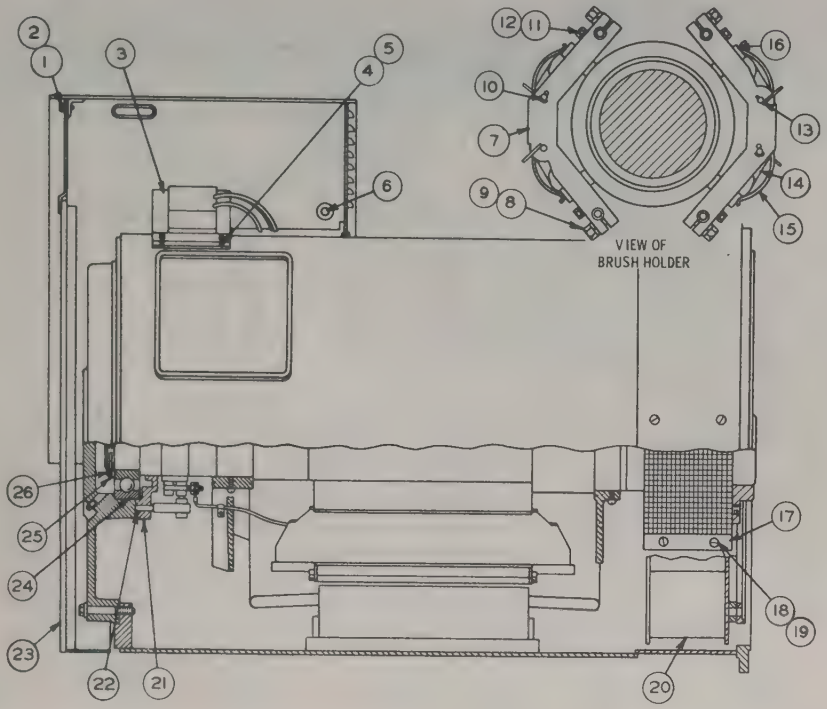



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 8L4090 | PANEL | 1 |
| 2 | 8L4085 | BOX ASSEM. | 1 |
| | 8L4086 | GASKET SET-----(3 Gaskets)----- | 1 |
| 3 | 7L7388 | CHANNEL | 1 |
| | | (Parts of 8L4085 Box Assem.) | |
| 4 | 8L4080 | BRACKET | 1 |
| 5 | 8L4082 | ADAPTER | 1 |
| 6 | 8L4093 | SCREW | 6 |
| 7 | 6B9703 | SPACER | 6 |
| 8 | 7F9223 | LOCKWASHER | 6 |
| 9 | 8L4073 | STATOR ASSEM. | 1 |
| 10 | 8L4074 | CHANNEL | 1 |
| | | (Part of 8L4073 Stator Assem.) | |
| 11 | 8L4076 | ROTOR ASSEM. | 1 |
| 12 | 4B1259 | SCREW | 4 |
| 13 | 6L7008 | CLAMP | 2 |
| | 3H3627 | SCREW | 2 |
| | 9B7233 | LOCKWASHER | 2 |
| 14 | 8L4077 | FAN | 1 |
| 15 | 3L1179 | RING ASSEM. ------(Inner)----- | 1 |
| | 3L1182 | NUT | 2 |
| | | (Part of 3L1179 Ring Assem.) | |
| 16 | 3L1180 | RING ASSEM. ------(Outer)----- | 1 |
| | 3L1182 | NUT | 2 |
| | 3L1181 | TUBE | 1 |
| | | (Parts of 3L1180 Ring Assem.) | |
| 17 | 8L4079 | HUB | 1 |
| 18 | 8L4078 | DISC | 1 |
| | | (Parts of 8L4076 Rotor Assem.) | |
| 19 | 1D4586 | BOLT | 6 |
| 20 | 3B4510 | LOCKWASHER | 6 |
| | 7L6738 | WIRING DIAGRAM | 1 |
| | 6L6421 | LABEL---------(Warning)--------- | 1 |
| | 6L6523 | LABEL--------(Instruction)-------- | 1 |
| | | The following Repair Kits are available: | |
| | 8L4095 | KIT--------(Stator Rewind)-------- | 1 |
| | 7L7405 | KIT---(Rotor Balance Weight)------ | 1 |

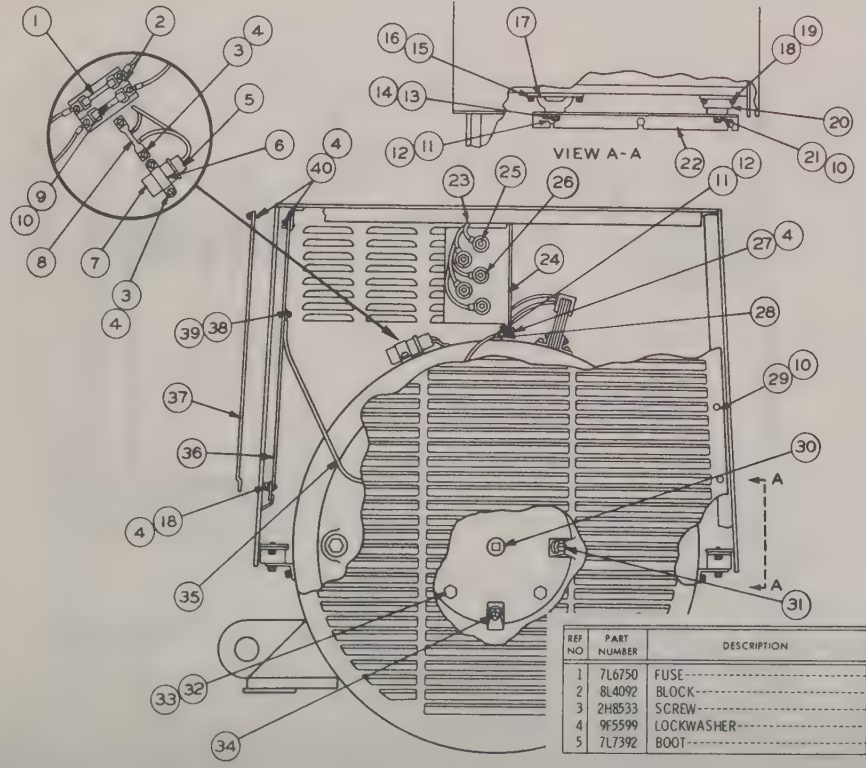
125600

**7L36 GENERATOR—3 Phase—Part 3 of 3**
**Generator Serial No. 500TH1 to 500TH1499 inclusive**
**230-460 Volt, 60 hertz at 1200 R.P.M. or 200-400 Volt, 50 hertz at 1000 R.P.M.**

# 7L37 GENERATOR—3 Phase—Part 1 of 3
## Generator Serial No. 500TG1 to 500TG1499 inclusive
## 287-575 Volt, 60 hertz at 1200 R.P.M.




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2D6249 | SCREW | 6 |
| 2 | 7F9223 | LOCKWASHER | 6 |
| 3 | 7L7394 | TRANSFORMER ASSEM. | 1 |
| 4 | 9F9327 | SCREW | 4 |
| 5 | 9F5599 | LOCKWASHER | 4 |
| 6 | 8L3948 | GROMMET | 1 |
| 7 | 3L1193 | HOLDER ASSEM. | 2 |
| | 3L1194 | HOLDER | 2 |
| 8 | S-1588 | BOLT | 4 |
| 9 | 3B4506 | LOCKWASHER | 4 |
| 10 | 3B4604 | COTTER PIN | 4 |
| 11 | S-1614 | BOLT | 4 |
| 12 | 3B4504 | LOCKWASHER | 4 |
| 13 | 8L4083 | PIN AND ARM ASSEM. | 4 |
| | 3L1195 | WASHER | 8 |
| 14 | 3L1199 | FINGER | 4 |
| 15 | 3L1196 | SPRING | 4 |
| | (One half each in 3L1193 Holder Assem.) | | |
| 16 | 3L1200 | BRUSH | 4 |
| 17 | 8L4081 | SCREEN | 1 |
| 18 | 2H3755 | BOLT | 4 |
| 19 | 1H7186 | LOCKWASHER | 4 |
| 20 | 8L4084 | FAN ASSEM. | 1 |
| 21 | 3L1190 | RETAINER AND YOKE ASSEM. | 1 |
| | 3L1191 | TUBE—(Long) | 2 |
| 22 | 3L1192 | TUBE—(Short) | 2 |
| | (Parts of 3L1190 Retainer and Yoke Assem.) | | |
| 23 | 8L4089 | COVER ASSEM. | 1 |
| 24 | 3L1186 | BEARING | 1 |
| 25 | 3L1188 | LOCK | 1 |
| 26 | 5L7333 | NUT | 1 |




| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 6 | 7L7402 | STRAP | 1 |
| 7 | 7L7400 | CAPACITOR | 1 |
| 8 | 7L7397 | RESISTOR ASSEM. | 1 |
| 9 | 4B1258 | SCREW | 2 |
| 10 | 7F9223 | LOCKWASHER | 12 |
| 11 | 2H3755 | BOLT | 7 |
| 12 | 1H7186 | LOCKWASHER | 7 |
| 13 | 6L6659 | BOLT | 2 |
| 14 | 9F5601 | LOCKWASHER | 2 |
| 15 | 4C4879 | BOLT | 4 |
| 16 | 8F3590 | LOCKWASHER | 4 |
| 17 | 8L3905 | SHOCKMOUNT | 2 |
| 18 | 9F9327 | SCREW | 12 |
| 19 | 8F1434 | LOCKWASHER | 8 |
| 20 | 7L1227 | SHOCKMOUNT----(Right Hand) | 1 |
| | 7L1228 | SHOCKMOUNT-----(Left Hand) | 1 |
| 21 | S-1614 | BOLT | 2 |
| 22 | 8L4094 | BRACKET-------(Right Hand) | 1 |
| | 8L4075 | BRACKET--------(Left Hand) | 1 |
| 23 | 8L4865 | HARNESS | 1 |
| 24 | 7L6827 | NOISE SUPPRESSION ASSEM. | 1 |
| 25 | 1B4330 | NUT | 6 |
| | 3B4504 | LOCKWASHER | 6 |
| 26 | 1D4717 | NUT | 4 |
| | 3B4506 | LOCKWASHER | 4 |
| | (Parts of 7L6827 Noise Suppression Assem.) | | |
| 27 | 6L7104 | SCREW | 8 |
| 28 | 7L4206 | STRAP | 1 |
| 29 | 2D6249 | SCREW | 8 |
| 30 | 1B5174 | PLUG | 1 |
| 31 | 2B7408 | PLUG | 1 |
| 32 | 2B2006 | BOLT | 4 |
| 33 | 3B4508 | LOCKWASHER | 4 |
| 34 | 2B7409 | PLUG | 1 |
| 35 | 8L4091 | CABLE ASSEM. | 1 |
| 36 | 8L3904 | EXCITER & REGULATOR ASSEM. (See Separate Illustration) | 1 |
| 37 | 8L4088 | COVER | 1 |
| 38 | 4B1220 | SCREW | 1 |
| 39 | 9B7233 | LOCKWASHER | 1 |
| 40 | 3K8190 | SCREW | 8 |

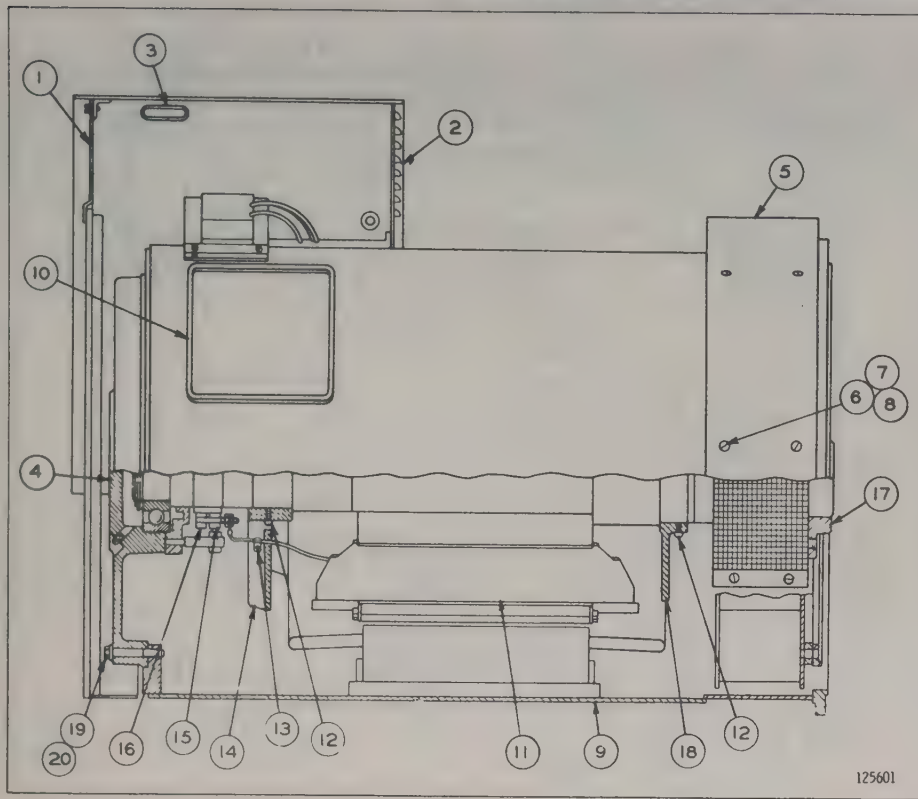
| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L6750 | FUSE | 2 |
| 2 | 8L4092 | BLOCK | 1 |
| 3 | 2H8533 | SCREW | 4 |
| 4 | 9F5599 | LOCKWASHER | 24 |
| 5 | 7L7392 | BOOT | 1 |

121288

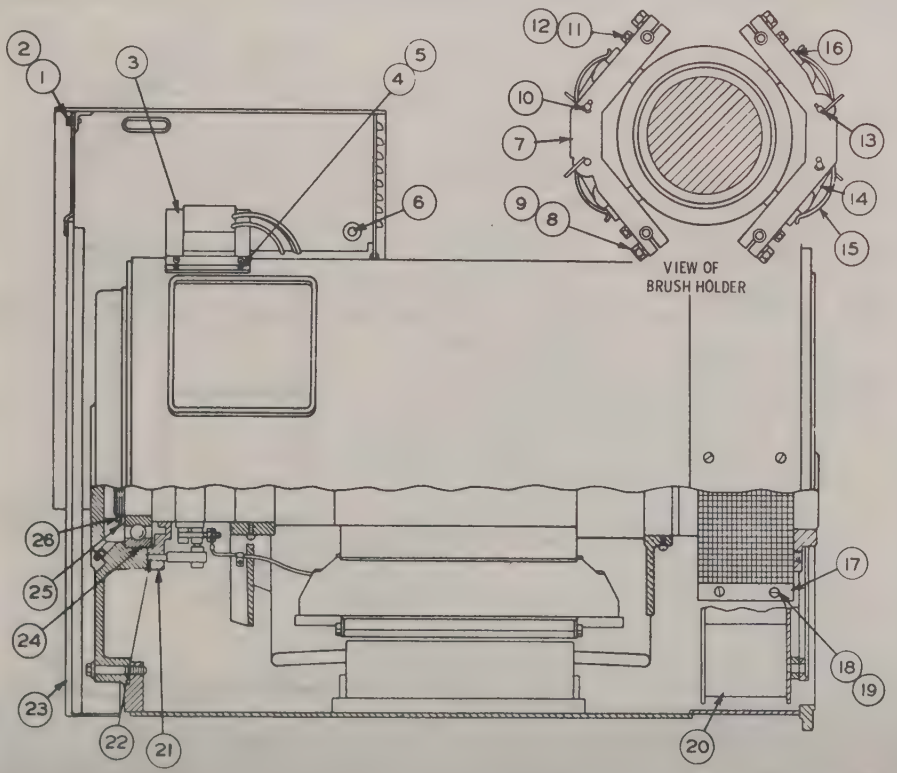
**7L37 GENERATOR—3 Phase—Part 2 of 3**
**Generator Serial No. 500TG1 to 500TG1499 inclusive**
**287-575 Volt, 60 hertz at 1200 R.P.M. 8L3904 Exciter and Regulator parts are shown on Pages 187A and 187B**

# 7L37 GENERATOR—3 Phase—Part 3 of 3

Generator Serial No. 500TG1 to 500TG1499 inclusive
287-575 Volt, 60 hertz at 1200 R.P.M.




| REF NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 8L4090 | PANEL | 1 |
| 2 | 8L4085 | BOX ASSEM. | 1 |
| | 8L4086 | GASKET SET----(3 Gaskets) | 1 |
| 3 | 7L7388 | CHANNEL | 1 |
| | | (Parts of 8L4085 Assem.) | |
| 4 | 8L4080 | BRACKET | 1 |
| 5 | 8L4082 | ADAPTER | 1 |
| 6 | 8L4093 | SCREW | 6 |
| 7 | 6B9703 | SPACER | 6 |
| 8 | 7F9223 | LOCKWASHER | 6 |
| 9 | 8L5177 | STATOR ASSEM. | 1 |
| 10 | 8L4074 | CHANNEL | 1 |
| | | (Part of 8L5177 Stator Assem.) | |
| 11 | 8L4076 | ROTOR ASSEM | 1 |
| 12 | 4B1259 | SCREW | 4 |
| 13 | 6L7008 | CLAMP | 2 |
| | 3H3627 | SCREW | 2 |
| | 9B7233 | LOCKWASHER | 2 |
| 14 | 8L4077 | FAN | 1 |
| 15 | 3L1179 | RING ASSEM. ------(Inner) | 1 |
| | 3L1182 | NUT | 2 |
| | | (Part of 3L1179 Ring Assem.) | |
| 16 | 3L1180 | RING ASSEM. ------(Outer) | 1 |
| | 3L1182 | NUT | 2 |
| | 3L1181 | TUBE | 1 |
| | | (Parts of 3L1180 Ring Assem.) | |
| 17 | 8L4079 | HUB | 1 |
| 18 | 8L4078 | DISC | 1 |
| | | (Parts of 8L4076 Rotor Assem.) | |
| 19 | 1D4586 | BOLT | 6 |
| 20 | 3B4510 | LOCKWASHER | 6 |
| | 7L6738 | WIRING DIAGRAM | 1 |
| | 6L6421 | LABEL--------(Warning)-------- | 1 |
| | 6L6523 | LABEL--------(Instruction)------- | 1 |
| | 8L5178 | KIT--------(Stator Rewind)-------- | 1 |
| | 7L7405 | KIT----(Rotor Balance Weight)----- | 1 |



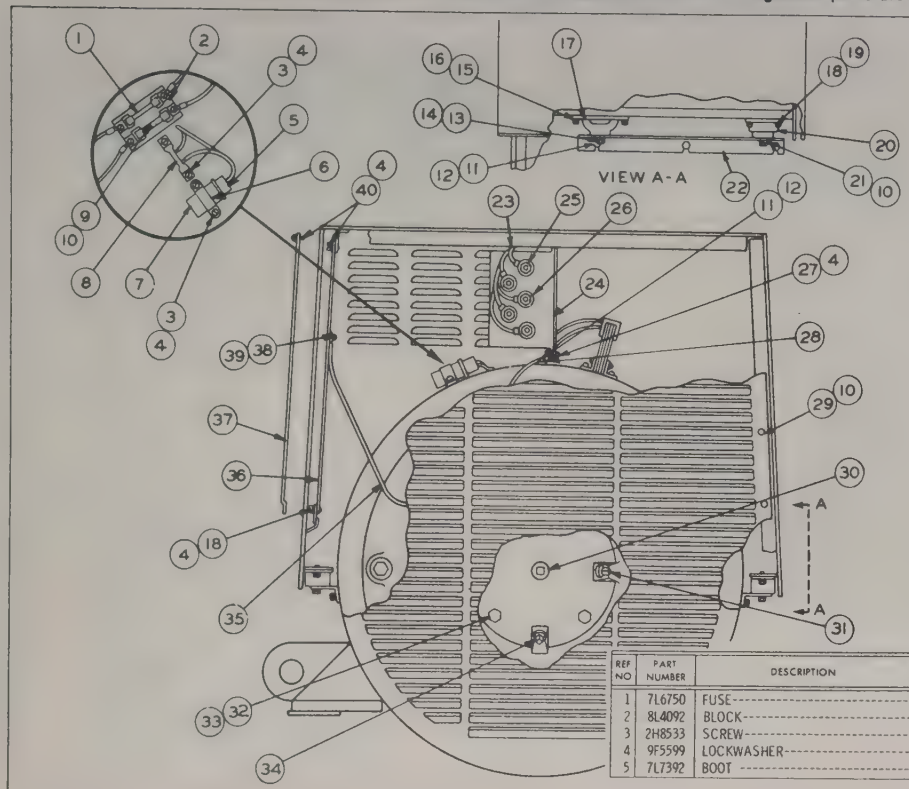

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 2D6249 | SCREW | 6 |
| 2 | 7F9223 | LOCKWASHER | 6 |
| 3 | 6L7009 | TRANSFORMER ASSEM. | 1 |
| 4 | 9F9327 | SCREW | 4 |
| 5 | 9F5599 | LOCKWASHER | 4 |
| 6 | 8L3948 | GROMMET | 1 |
| 7 | 3L1193 | HOLDER ASSEM. | 2 |
| | 3L1194 | HOLDER | 2 |
| 8 | S 1588 | BOLT | 4 |
| 9 | 3B4506 | LOCKWASHER | 4 |
| 10 | 3B4604 | COTTER PIN | 4 |
| 11 | S 1614 | BOLT | 4 |
| 12 | 3B4504 | LOCKWASHER | 4 |
| 13 | 8L4083 | PIN AND ARM ASSEM. | 4 |
| | 3L1195 | WASHER | 8 |
| 14 | 3L1199 | FINGER | 4 |
| 15 | 3L1196 | SPRING | 4 |
| | (One half each in 3L1193 Holder Assem.) | | |
| 16 | 3L1200 | BRUSH | 4 |
| 17 | 8L4081 | SCREEN | 1 |
| 18 | 2H3755 | BOLT | 4 |
| 19 | 1H7186 | LOCKWASHER | 4 |
| 20 | 8L4084 | FAN ASSEM. | 1 |
| 21 | 3L1190 | RETAINER AND YOKE ASSEM. | 1 |
| | 3L1191 | TUBE ----------(Long)---------- | 2 |
| 22 | 3L1192 | TUBE----------(Short)---------- | 2 |
| | (Parts of 3L1190 Retainer and Yoke Assem.) | | |
| 23 | 8L4089 | COVER ASSEM. | 1 |
| 24 | 3L1186 | BEARING | 1 |
| 25 | 3L1188 | LOCK | 1 |
| 26 | 5L7333 | NUT | 1 |

**7L38 GENERATOR—3 Phase—Part 1 of 3**
**Generator Serial No. 500TN1 to 500TN1499 inclusive**
**2400 Volt, 60 hertz at 1200 R.P.M.**

## 7L38 GENERATOR—3 Phase—Part 2 of 3

Generator Serial No. 500TN1 to 500TN1499 inclusive

2400 Volt, 60 hertz at 1200 R.P.M. 8L8950 Exciter and Regulator parts are shown on Page 187D

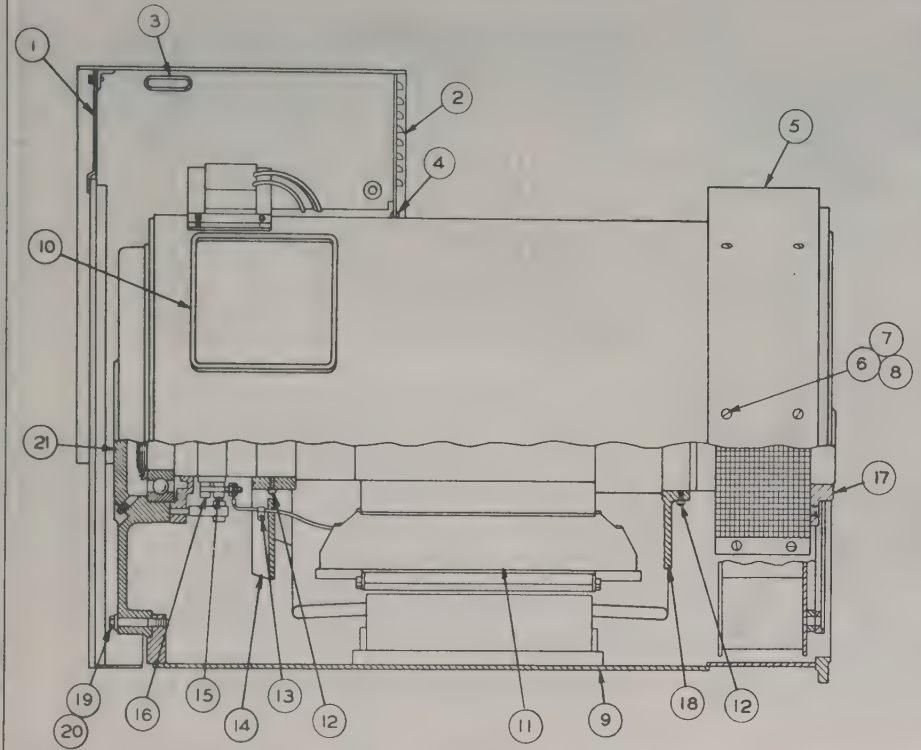



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 7L6750 | FUSE | 2 |
| 2 | 8L4092 | BLOCK | 1 |
| 3 | 2H8533 | SCREW | 4 |
| 4 | 9F5599 | LOCKWASHER | 24 |
| 5 | 7L7392 | BOOT | 1 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 6 | 7L7402 | STRAP | 1 |
| 7 | 7L7400 | CAPACITOR | 1 |
| 8 | 7L7397 | RESISTOR ASSEM. | 1 |
| 9 | 4B1258 | SCREW | 2 |
| 10 | 7F9223 | LOCKWASHER | 12 |
| 11 | 2H3755 | BOLT | 7 |
| 12 | 1H7186 | LOCKWASHER | 7 |
| 13 | 6L6659 | BOLT | 2 |
| 14 | 9F5601 | LOCKWASHER | 2 |
| 15 | 4F4879 | BOLT | 4 |
| 16 | 8F3590 | LOCKWASHER | 4 |
| 17 | 8L3905 | SHOCKMOUNT | 2 |
| 18 | 9F9327 | SCREW | 12 |
| 19 | 8F1434 | LOCKWASHER | 8 |
| 20 | 7L227 | SHOCKMOUNT—(Right Hand) | 1 |
| | 7L228 | SHOCKMOUNT—(Left Hand) | 1 |
| 21 | S 1614 | BOLT | 2 |
| 22 | 8L4094 | BRACKET—(Right Hand) | 1 |
| | 8L4075 | BRACKET—(Left Hand) | 1 |
| 23 | 8L4865 | HARNESS | 1 |
| 24 | 7L6827 | NOISE SUPPRESSION ASSEM. | 1 |
| 25 | 1B4330 | NUT | 6 |
| | 3B4504 | LOCKWASHER | 6 |
| 26 | 1D4717 | NUT | 4 |
| | 3B4506 | LOCKWASHER | 4 |
| | | (Parts of 7L6827 Noise Suppression Assem.) | |
| 27 | 6L7104 | SCREW | 8 |
| 28 | 7L4206 | STRAP | 1 |
| 29 | 2D6249 | SCREW | 8 |
| 30 | 1B5174 | PLUG | 1 |
| 31 | 2B7408 | PLUG | 1 |
| 32 | 2B2006 | BOLT | 4 |
| 33 | 3B4508 | LOCKWASHER | 4 |
| 34 | 2B7409 | PLUG | 1 |
| 35 | 8L4091 | CABLE ASSEM. | 1 |
| 36 | 8L8950 | EXCITER & REGULATOR ASSEM. (See Separate Illustration) | 1 |
| 37 | 8L4088 | COVER | 1 |
| 38 | 4B1220 | SCREW | 1 |
| 39 | 9B7233 | LOCKWASHER | 1 |
| 40 | 3K8190 | SCREW | 8 |

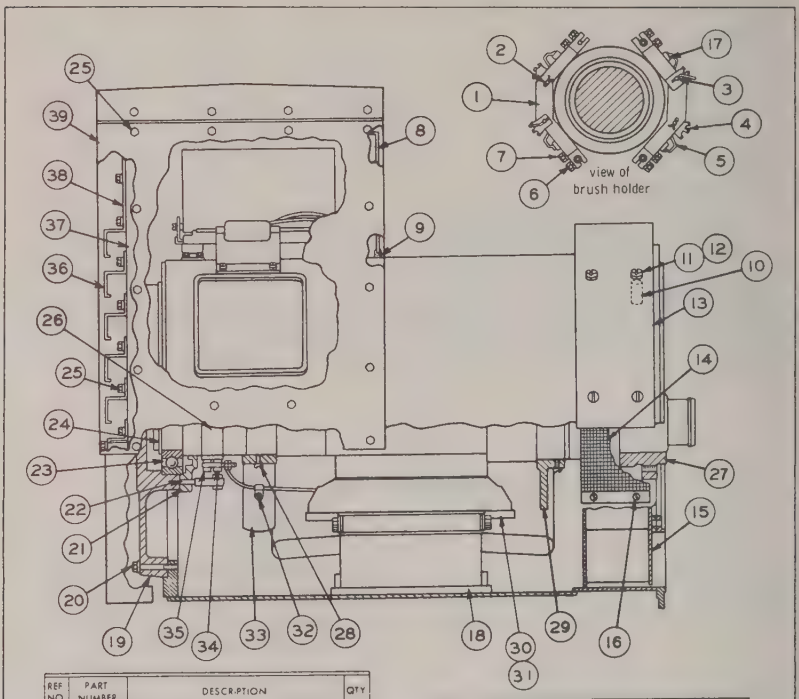
125599

## 7L38 GENERATOR—3 Phase—Part 3 of 3
Generator Serial No. 500TN1 to 500TN1499 inclusive
2400 Volt, 60 hertz at 1200 R.P.M.




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 8L4090 | PANEL | 1 |
| 2 | 8L4085 | BOX ASSEM. | 1 |
| | 8L4086 | GASKET SET—(3 Gaskets) | 1 |
| 3 | 7L7388 | CHANNEL | 1 |
| 4 | 8L4087 | CHANNEL | 1 |
| | | (Parts of 8L4085 Box Assem.) | |
| 5 | 8L4082 | ADAPTER | 1 |
| 6 | 8L4093 | SCREW | 6 |
| 7 | 6B9703 | SPACER | 6 |
| 8 | 7F9223 | LOCKWASHER | 6 |
| 9 | 8L8942 | STATOR ASSEM. | 1 |
| 10 | 8L4074 | CHANNEL | 1 |
| | | (Part of 8L8942 Stator Assem.) | |
| 11 | 8L4076 | ROTOR ASSEM. | 1 |
| 12 | 4B1259 | SCREW | 4 |
| 13 | 6L7008 | CLAMP | 2 |
| | 3H3627 | SCREW | 2 |
| | 9B7233 | LOCKWASHER | 2 |
| 14 | 8L4077 | FAN | 1 |
| 15 | 3L1179 | RING ASSEM.—(Inner) | 1 |
| | 3L1182 | NUT | 2 |
| | | (Part of 3L1179 Ring Assem.) | |
| 16 | 3L1180 | RING ASSEM.—(Outer) | 1 |
| | 3L1182 | NUT | 2 |
| | 3L1181 | TUBE | 1 |
| | | (Parts of 3L1180 Ring Assem.) | |
| 17 | 8L4079 | HUB | 1 |
| 18 | 8L4078 | DISC | 1 |
| | | (Parts of 8L4076 Rotor Assem.) | |
| 19 | 1D4586 | BOLT | 6 |
| 20 | 3B4510 | LOCKWASHER | 6 |
| 21 | 8L4080 | BRACKET | 1 |
| | 8L5801 | WIRING DIAGRAM | 1 |
| | 6L6421 | LABEL—(Warning) | 1 |
| | 6L6523 | LABEL—(Instruction) | 1 |
| | | The following Repair Kits are available: | |
| | 8L8943 | KIT—(Stator Rewind) | 1 |
| | 7L7405 | KIT—(Rotor Balance Weight) | 1 |

123290

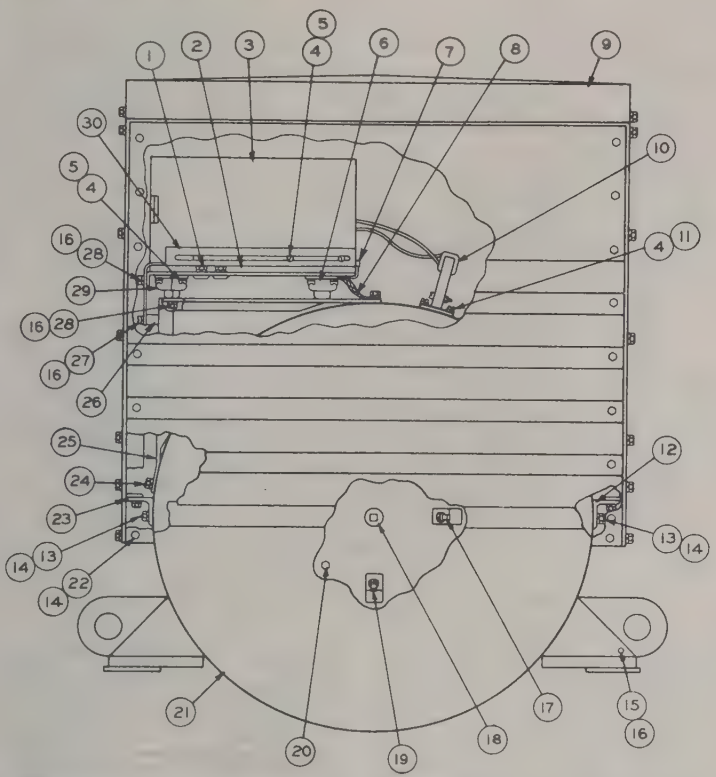



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3L1193 | HOLDER ASSEM. | 2 |
| | 3L1194 | HOLDER | 2 |
| 2 | 3B4604 | COTTER PIN | 4 |
| 3 | 8L4083 | PIN AND ARM ASSEM. | 4 |
| | 3L1195 | WASHER | 8 |
| 4 | 3L1199 | FINGER | 4 |
| 5 | 3L1196 | SPRING | 4 |
| 6 | S1588 | BOLT | 4 |
| | 3B4506 | LOCKWASHER | 4 |
| 7 | S1614 | BOLT | 4 |
| | 3B4504 | LOCKWASHER | 4 |
| | (One-half each in 3L1193 Holder Assem.) | | |
| 8 | 1N5377 | PANEL-----(Front)----- | 1 |
| 9 | 1N5372 | CHANNEL | 1 |
| 10 | 6B9703 | SPACER | 6 |
| 11 | 8L4093 | SCREW | 6 |
| 12 | 7F9223 | LOCKWASHER | 6 |
| 13 | 8L4082 | COVER | 1 |
| 14 | 8L4081 | SCREEN | 1 |
| 15 | 8L4084 | FAN ASSEM. | 1 |
| 16 | 2H3755 | BOLT | 4 |
| | 1H7186 | LOCKWASHER | 4 |
| 17 | 3L1200 | BRUSH | 4 |
| 18 | 1N7125 | STATOR ASSEM. | 1 |
| | 8L4074 | CHANNEL | 1 |
| | (Part of 1N7125 Stator Assem.) | | |
| 19 | 8L4080 | BRACKET | 1 |
| 20 | 1D4586 | BOLT | 6 |
| | 3B4510 | LOCKWASHER | 6 |
| 21 | 3L1190 | RETAINER AND YOKE ASSEM. | 1 |
| 22 | 3L1192 | TUBE----------(Short)---------- | 1 |
| | 3L1191 | TUBE----------(Long)---------- | 1 |
| | (Parts of 3L1190 Retainer & Yoke Assem.) | | |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 23 | 3L1186 | BEARING | 1 |
| 24 | 1N5410 | RING | 1 |
| 25 | S509 | BOLT | 62 |
| | 8F3590 | LOCKWASHER | 62 |
| 26 | 1N7126 | ROTOR ASSEM. | 1 |
| 27 | 8L4079 | HUB | 1 |
| 28 | 4B1259 | SCREW | 4 |
| 29 | 8L4078 | DISC | 1 |
| 30 | 1N8086 | POLE ASSEM. | 6 |
| 31 | 5L7355 | WEDGE | 12 |
| 32 | 6L7008 | CLAMP | 2 |
| | 3H3627 | SCREW | 2 |
| | 9B7233 | LOCKWASHER | 2 |
| 33 | 8L4077 | FAN | 1 |
| 34 | 3L1179 | RING ASSEM. -----(Inner)----- | 1 |
| | 3L1182 | NUT | 2 |
| | | (Part of 3L1179 Ring Assem.) | |
| | 3L1180 | RING ASSEM. -----(Outer)----- | 1 |
| | | (Parts of 1N7126 Rotor Assem.) | |
| 35 | 3L1182 | NUT | 2 |
| | 3L1181 | TUBE | 1 |
| | | (Parts of 3L1180 Ring Assem.) | |
| 36 | 1N5380 | LOUVER | 4 |
| 37 | 1N5373 | FRAME ASSEM. ----(Right Hand)--- | 1 |
| | 1N5374 | FRAME ASSEM. ----(Left Hand)----- | 1 |
| 38 | 1N5381 | PANEL----------(Meter)---------- | 1 |
| 39 | 1N5379 | PANEL----------(Side)---------- | 2 |

123802

**7L96 GENERATOR—3 Phase—Side View**
**Generator Serial No. 500TH1500—Up**
**230-460 Volt, 60 hertz at 1200 R.P.M. or 200-400 Volt, 50 hertz at 1000 R.P.M.**



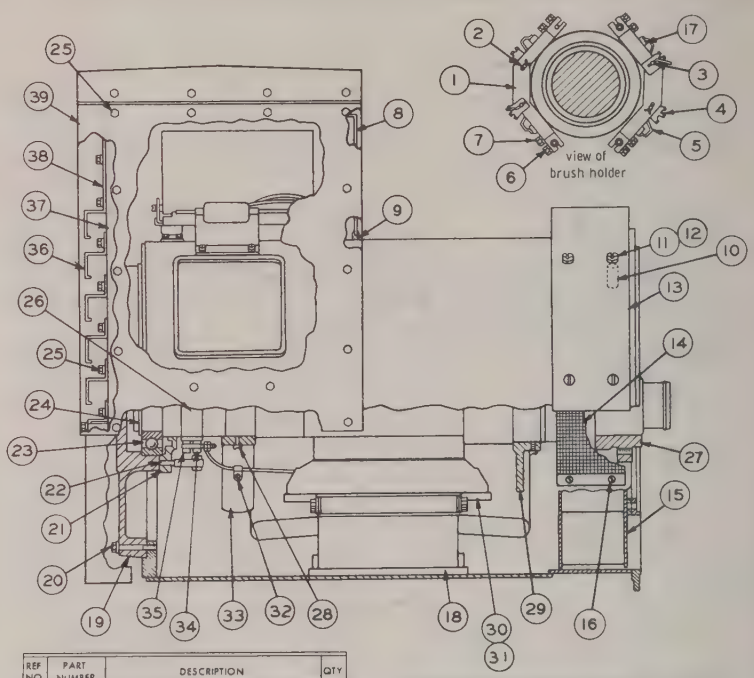

| REF. NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | S1613 | BOLT | 4 |
| | 1H3244 | LOCKWASHER | 4 |
| 2 | 8L9821 | SUPPORT ASSEM. | 1 |
| 3 | 1N5375 | EXCITER & REGULATOR ASSEM. (Separate Illustration) | 1 |
| 4 | 9F9327 | SCREW | 24 |
| 5 | 8F1434 | LOCKWASHER | 20 |
| 6 | 8L54/7 | SHOCK MOUNT | 3 |
| 7 | 8L8602 | CHANNEL | 1 |
| 8 | 8L5476 | STRAP | 1 |
| 9 | 1N5376 | COVER | 1 |
| 10 | 7L7394 | DROOP TRANSFORMER ASSEM. | 1 |
| 11 | 9F5599 | LOCKWASHER | 4 |
| 12 | 1N5383 | BRACKET | 1 |
| 13 | S509 | BOLT | 14 |
| 14 | 8F5390 | LOCKWASHER | 16 |
| 15 | 7B2742 | BOLT | 1 |
| | 1B4330 | NUT | 1 |
| 16 | 7F9223 | LOCKWASHER | 9 |
| 17 | 2B7408 | PLUG | 1 |
| 18 | 1B5174 | PLUG | 1 |
| 19 | 2B7409 | PLUG | 1 |
| 20 | 2B2006 | BOLT | 4 |
| | 3B4508 | LOCKWASHER | 4 |
| 21 | 1N5378 | COVER ASSEM. | 1 |
| 22 | L1143 | BOLT | 2 |
| 23 | 1N5364 | BRACKET | 1 |
| 24 | 2H3755 | BOLT | 6 |
| | 1H7186 | LOCKWASHER | 6 |
| 25 | 1N5384 | BRACKET | 2 |
| 26 | 8L9826 | SPACER | 2 |
| 27 | 4B1259 | SCREW | 2 |
| 28 | S1614 | BOLT | 6 |
| 29 | 7L893 | SHOCK MOUNT | 1 |
| 30 | 8L9823 | GUIDE | 2 |
| | 8L5656 | WIRING DIAGRAM | 1 |
| | 6L6523 | LABEL -------(Instruction)-------- | 1 |
| C | 2N6055 | KIT ----------(Stator)---------- | 1 |
| | 7L7405 | KIT -----(Rotor Balance Weight)---- | 1 |

C INDICATES CHANGE

139246

**7L96 GENERATOR—3 Phase—End View**

**Generator Serial No. 500TH1500—Up. 230-460 Volt, 60 hertz at 1200 R.P.M. or 200-400 Volt, 50 hertz at 1000 R.P.M. 1N5375 Exciter and Regulator parts are shown on Pages 187E and 187F**

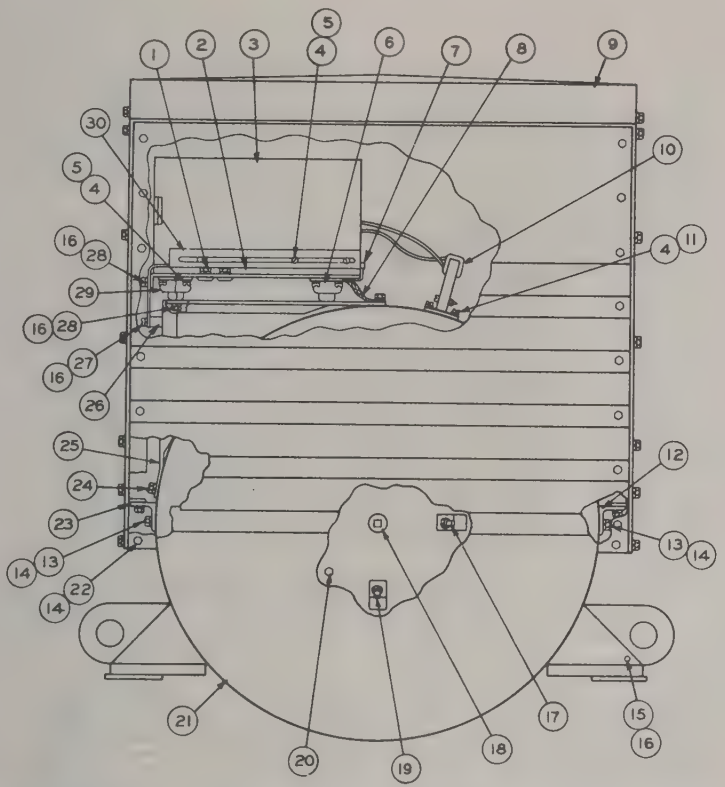



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3L1193 | HOLDER ASSEM. | 2 |
| | 3L1194 | HOLDER | 2 |
| 2 | 3B4604 | COTTER PIN | 4 |
| 3 | 8L4083 | PIN AND ARM ASSEM. | 4 |
| | 3L1195 | WASHER | 8 |
| 4 | 3L1199 | FINGER | 4 |
| 5 | 3L1196 | SPRING | 4 |
| 6 | S1588 | BOLT | 4 |
| | 3B4506 | LOCKWASHER | 4 |
| 7 | S1614 | BOLT | 4 |
| | 3B4504 | LOCKWASHER | 4 |
| | (One-half each in 3L1193 Holder Assem.) | | |
| 8 | 1N5377 | PANEL----------(Front)---------- | 1 |
| 9 | 1N5372 | CHANNEL | 1 |
| 10 | 6B9703 | SPACER | 6 |
| 11 | 8L4093 | SCREW | 6 |
| 12 | 7F9223 | LOCKWASHER | 6 |
| 13 | 8L4082 | COVER | 1 |
| 14 | 8L4081 | SCREEN | 1 |
| 15 | 8L4084 | FAN ASSEM. | 1 |
| 16 | 2H3755 | BOLT | 4 |
| | 1H7186 | LOCKWASHER | 4 |
| 17 | 3L1200 | BRUSH | 4 |
| 18 | 1N7129 | STATOR ASSEM. | 1 |
| | 8L4074 | CHANNEL | 1 |
| | (Part of 1N7129 Stator Assem.) | | |
| 19 | 8L4080 | BRACKET | 1 |
| 20 | 104586 | BOLT | 6 |
| | 3B4510 | LOCKWASHER | 6 |
| 21 | 3L1190 | RETAINER AND YOKE ASSEM. | 1 |
| 22 | 3L1192 | TUBE----------(Short)---------- | 1 |
| | 3L1191 | TUBE----------(Long)---------- | 1 |
| | (Parts of 3L1190 Retainer & Yoke Assem.) | | |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 23 | 3L1186 | BEARING | 1 |
| 24 | 1N5410 | RING | 1 |
| 25 | S509 | BOLT | 62 |
| | 8F3590 | LOCKWASHER | 62 |
| 26 | 1N7126 | ROTOR ASSEM. | 1 |
| 27 | 8L4079 | HUB | 1 |
| 28 | 4B1259 | SCREW | 4 |
| 29 | 8L4078 | DISC | 1 |
| 30 | 1N8086 | POLE ASSEM. | 6 |
| 31 | 5L7355 | WEDGE | 12 |
| 32 | 6L7008 | CLAMP | 2 |
| | 3H3627 | SCREW | 2 |
| | 9B7233 | LOCKWASHER | 2 |
| 33 | 8L4077 | FAN | 1 |
| 34 | 3L1179 | RING ASSEM. -----(Inner)----- | 1 |
| | 3L1182 | NUT | 2 |
| | (Part of 3L1179 Ring Assem.) | | |
| 35 | 3L1180 | RING ASSEM. -----(Outer)----- | 1 |
| | (Parts of 1N7126 Rotor Assem.) | | |
| | 3L1182 | NUT | 2 |
| | 3L1181 | TUBE | 1 |
| | (Parts of 3L1180 Ring Assem.) | | |
| 36 | 1N5380 | LOUVER | 4 |
| 37 | 1N5373 | FRAME ASSEM. ----(Right Hand)--- | 1 |
| | 1N5374 | FRAME ASSEM. ----(Left Hand)----- | 1 |
| 38 | 1N5381 | PANEL ----------(Meter)---------- | 1 |
| 39 | 1N5379 | PANEL----------(Side)---------- | 2 |

105292

**7L97 GENERATOR—3 Phase—Side View**
**Generator Serial No. 500TG1500—Up. 287-575 Volt, 60 hertz at 1200 R.P.M. or 230-460 Volt, 50 hertz at 1000 R.P.M.**

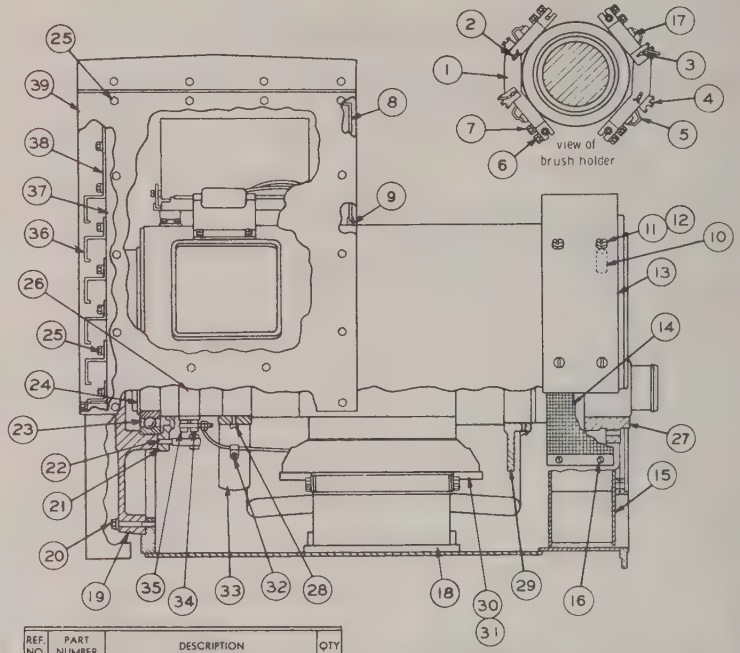



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | S1613 | BOLT | 4 |
| | 1M3244 | LOCKWASHER | 4 |
| 2 | 8L9821 | SUPPORT ASSEM. | 1 |
| 3 | 1N5375 | EXCITER & REGULATOR ASSEM. (See Separate Illustration) | 1 |
| 4 | 9F9327 | SCREW | 24 |
| 5 | 8F1434 | LOCKWASHER | 20 |
| 6 | 8L5477 | SHOCK MOUNT | 3 |
| 7 | 8L8602 | CHANNEL | 1 |
| 8 | 8L5476 | STRAP | 1 |
| 9 | 1N5376 | COVER | 1 |
| 10 | 7L7394 | DROOP TRANSFORMER ASSEM. | 1 |
| 11 | 9F5599 | LOCKWASHER | 4 |
| 12 | 1N5383 | BRACKET | 1 |
| 13 | S509 | BOLT | 14 |
| 14 | 8F5390 | LOCKWASHER | 16 |
| 15 | 2B2742 | BOLT | 1 |
| | 1B4330 | NUT | 1 |
| 16 | 7F9223 | LOCKWASHER | 9 |
| 17 | 2B7408 | PLUG | 1 |
| 18 | 1B5174 | PLUG | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 19 | 2B7409 | PLUG | 1 |
| 20 | 2B2006 | BOLT | 3 |
| | 3B4508 | LOCKWASHER | 4 |
| 21 | 1N5378 | COVER ASSEM. | 1 |
| 22 | L1143 | BOLT | 2 |
| 23 | 1N5364 | BRACKET | 1 |
| 24 | 2H3755 | BOLT | 5 |
| | 1H7186 | LOCKWASHER | 5 |
| 25 | 1N5384 | BRACKET | 2 |
| 26 | 8L9826 | SPACER | 2 |
| 27 | 4B1259 | SCREW | 2 |
| 28 | S1614 | BOLT | 2 |
| 29 | 7L893 | SHOCK MOUNT | 2 |
| 30 | 8L9823 | GUIDE | 2 |
| | 8L5656 | WIRING DIAGRAM | 1 |
| | 6L6523 | LABEL--------(Instruction)------- | 1 |
| | 8L5178 | KIT--------(Stator Rewind)------- | 1 |
| | 7L7405 | KIT----(Rotor Balance Weight)----- | 1 |

105293

7L97 GENERATOR—3 Phase—End View
Generator Serial No. 500TG1500—Up. 287-575 Volt, 60 hertz at 1200 R.P.M. or 230-460 Volt, 50 hertz at 1000 R.P.M. 1N5375 Exciter and Regulator parts are shown on Pages 187E and 187F

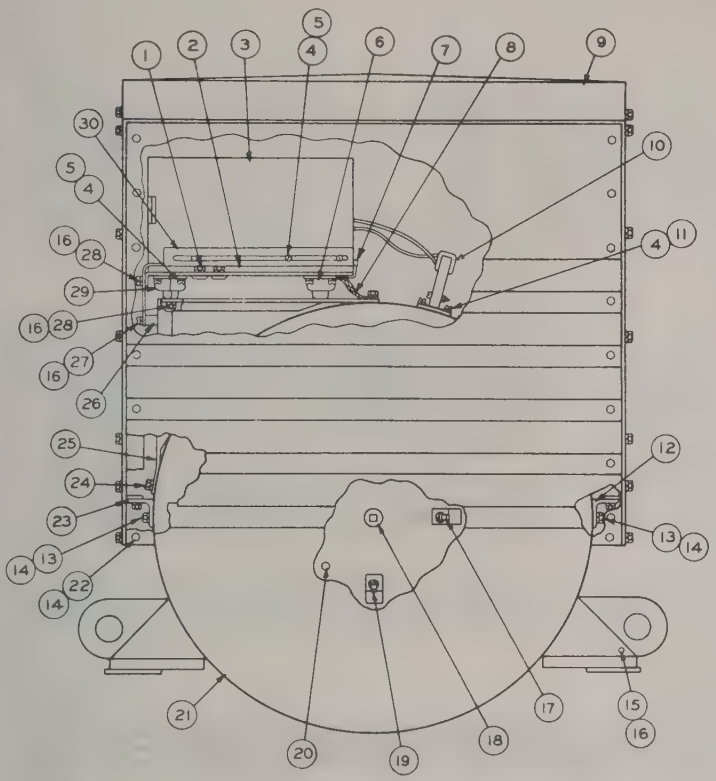



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 3L1193 | HOLDER ASSEM. | 2 |
| | 3L1194 | HOLDER | 2 |
| 2 | 3B4604 | COTTER PIN | 4 |
| 3 | 8L4083 | PIN AND ARM ASSEM. | 4 |
| | 3L1195 | WASHER | 8 |
| 4 | 3L1199 | FINGER | 4 |
| 5 | 3L1196 | SPRING | 4 |
| 6 | S1588 | BOLT | 4 |
| | 3B4506 | LOCKWASHER | 4 |
| 7 | S1614 | BOLT | 4 |
| | 3B4504 | LOCKWASHER | 4 |
| | (One-half each in 3L1193 Holder Assem.) | | |
| 8 | 1N5377 | PANEL-----(Front)----- | 1 |
| 9 | 1N5372 | CHANNEL | 1 |
| 10 | 6B9703 | SPACER | 6 |
| 11 | 8L4093 | SCREW | 6 |
| 12 | 7F9223 | LOCKWASHER | 6 |
| 13 | 8L4082 | COVER | 1 |
| 14 | 8L4081 | SCREEN | 1 |
| 15 | 8L4084 | FAN ASSEM. | 1 |
| 16 | 2H3755 | BOLT | 4 |
| | 1H7186 | LOCKWASHER | 4 |
| 17 | 3L1200 | BRUSH | 4 |
| 18 | 1N7132 | STATOR ASSEM. | 1 |
| | 8L4074 | CHANNEL | 1 |
| | (Part of 1N7132 Stator Assem.) | | |
| 19 | 8L4080 | BRACKET | 1 |
| 20 | 1D4586 | BOLT | 6 |
| | 3B4510 | LOCKWASHER | 6 |
| 21 | 3L1190 | RETAINER AND YOKE ASSEM. | 1 |
| 22 | 3L1192 | TUBE-----(Short)----- | 1 |
| | 3L1191 | TUBE-----(Long)----- | 1 |
| | (Parts of 3L1190 Retainer & Yoke Assem.) | | |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 23 | 3L1186 | BEARING | 1 |
| 24 | 1N5410 | RING | 1 |
| 25 | S509 | BOLT | 62 |
| | 8F3590 | LOCKWASHER | 62 |
| 26 | 1N7126 | ROTOR ASSEM. | 1 |
| 27 | 8L4079 | HUB | 1 |
| 28 | 4B1259 | SCREW | 4 |
| 29 | 8L4078 | DISC | 1 |
| 30 | 1N8086 | POLE ASSEM. | 6 |
| 31 | 5L7355 | WEDGE | 12 |
| 32 | 6L7008 | CLAMP | 2 |
| | 3H3627 | SCREW | 2 |
| | 9B7233 | LOCKWASHER | 2 |
| 33 | 8L4077 | FAN | 1 |
| 34 | 3L1179 | RING ASSEM. -----(Inner)----- | 1 |
| | 3L1182 | NUT | 2 |
| | (Part of 3L1179 Ring Assem.) | | |
| 35 | 3L1180 | RING ASSEM. -----(Outer)----- | 1 |
| | (Parts of 1N7126 Rotor Assem.) | | |
| | 3L1182 | NUT | 2 |
| | 3L1181 | TUBE | 1 |
| | (Parts of 3L1180 Ring Assem.) | | |
| 36 | 1N5380 | LOUVER | 4 |
| 37 | 1N5373 | FRAME ASSEM. -----(Right Hand)--- | 1 |
| | 1N5374 | FRAME ASSEM. -----(Left Hand)----- | 1 |
| 38 | 1N5381 | PANEL -----(Meter)----- | 1 |
| 39 | 1N5379 | PANEL -----(Side)----- | 2 |

123805

**7L98 GENERATOR—3 Phase—Side View**
**Generator Serial No. 500TN1500—Up**
**2400 Volt, 60 hertz at 1200 R.P.M.**

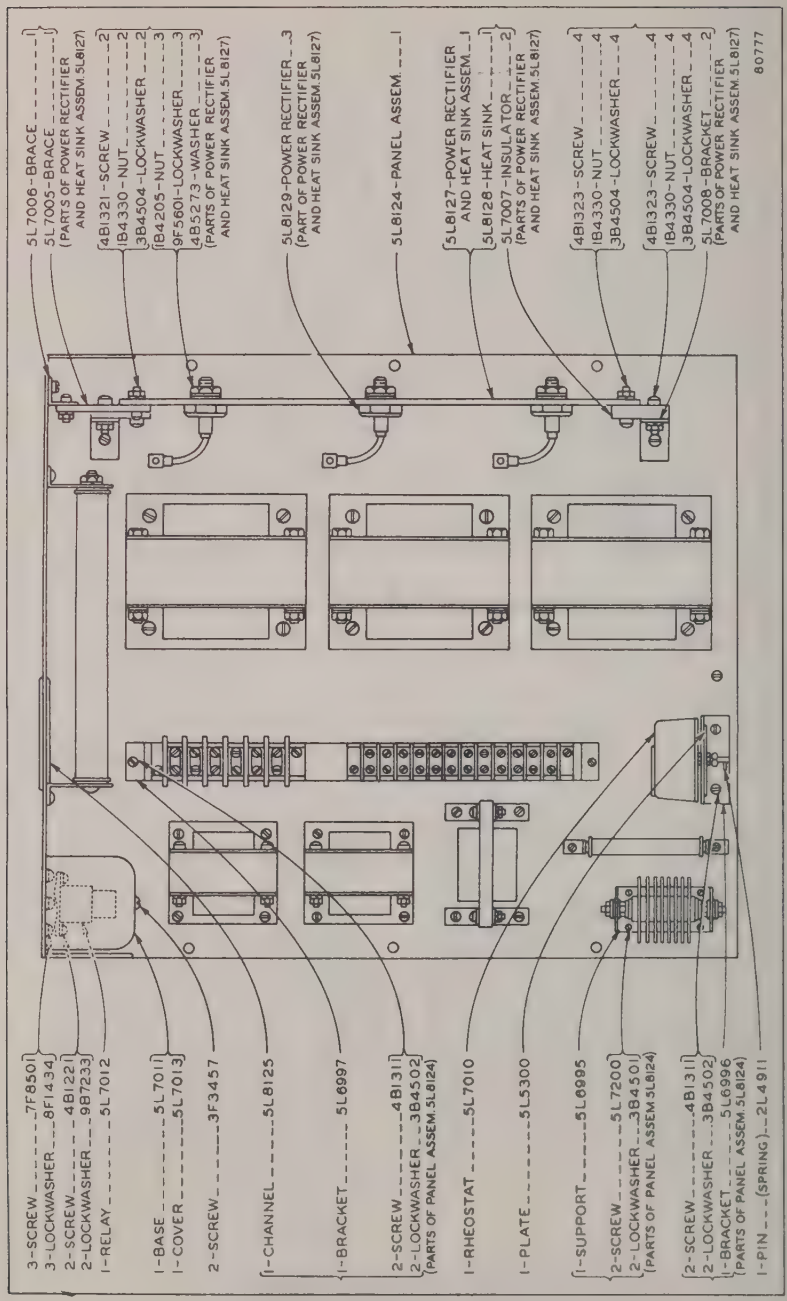



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | S1613 | BOLT | 4 |
| | 1H3244 | LOCKWASHER | 4 |
| 2 | 8L9821 | SUPPORT ASSEM. | 1 |
| 3 | 1N5500 | EXCITER & REGULATOR ASSEM. (See Separate Illustration) | 1 |
| 4 | 9F9327 | SCREW | 24 |
| 5 | 8F1434 | LOCKWASHER | 20 |
| 6 | 8L5477 | SHOCK MOUNT | 3 |
| 7 | 8L8602 | CHANNEL | 1 |
| 8 | 8L5476 | STRAP | 1 |
| 9 | 1N5376 | COVER | 1 |
| 10 | 6L7009 | DROOP TRANSFORMER ASSEM. | 1 |
| 11 | 9F5599 | LOCKWASHER | 4 |
| 12 | 1N5383 | BRACKET | 1 |
| 13 | S509 | BOLT | 14 |
| 14 | 8F5390 | LOCKWASHER | 16 |
| 15 | 7B2742 | BOLT | 1 |
| | 1B4330 | NUT | 1 |
| 16 | 7F9223 | LOCKWASHER | 9 |
| 17 | 2B7408 | PLUG | 1 |
| 18 | 1B5174 | PLUG | 1 |

| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 19 | 2B7409 | PLUG | 1 |
| 20 | 2B2006 | BOLT | 4 |
| | 3B4508 | LOCKWASHER | 4 |
| 21 | 1N5378 | COVER ASSEM. | 1 |
| 22 | L1143 | BOLT | 2 |
| 23 | 1N5364 | BRACKET | 1 |
| 24 | 2H3755 | BOLT | 6 |
| | 1H7186 | LOCKWASHER | 6 |
| 25 | 1N5384 | BRACKET | 2 |
| 26 | 8L9826 | SPACER | 2 |
| 27 | 4B1259 | SCREW | 2 |
| 28 | S1614 | BOLT | 6 |
| 29 | 7L893 | SHOCK MOUNT | 1 |
| 30 | 8L9823 | GUIDE | 2 |
| | 8L9846 | WIRING DIAGRAM | 1 |
| | 6L6523 | LABEL--------(Instruction)-------- | 1 |
| | 8L8943 | KIT--------(Stator Rewind)-------- | 1 |
| | 7L7405 | KIT----(Rotor Balance Weight)----- | 1 |

123806

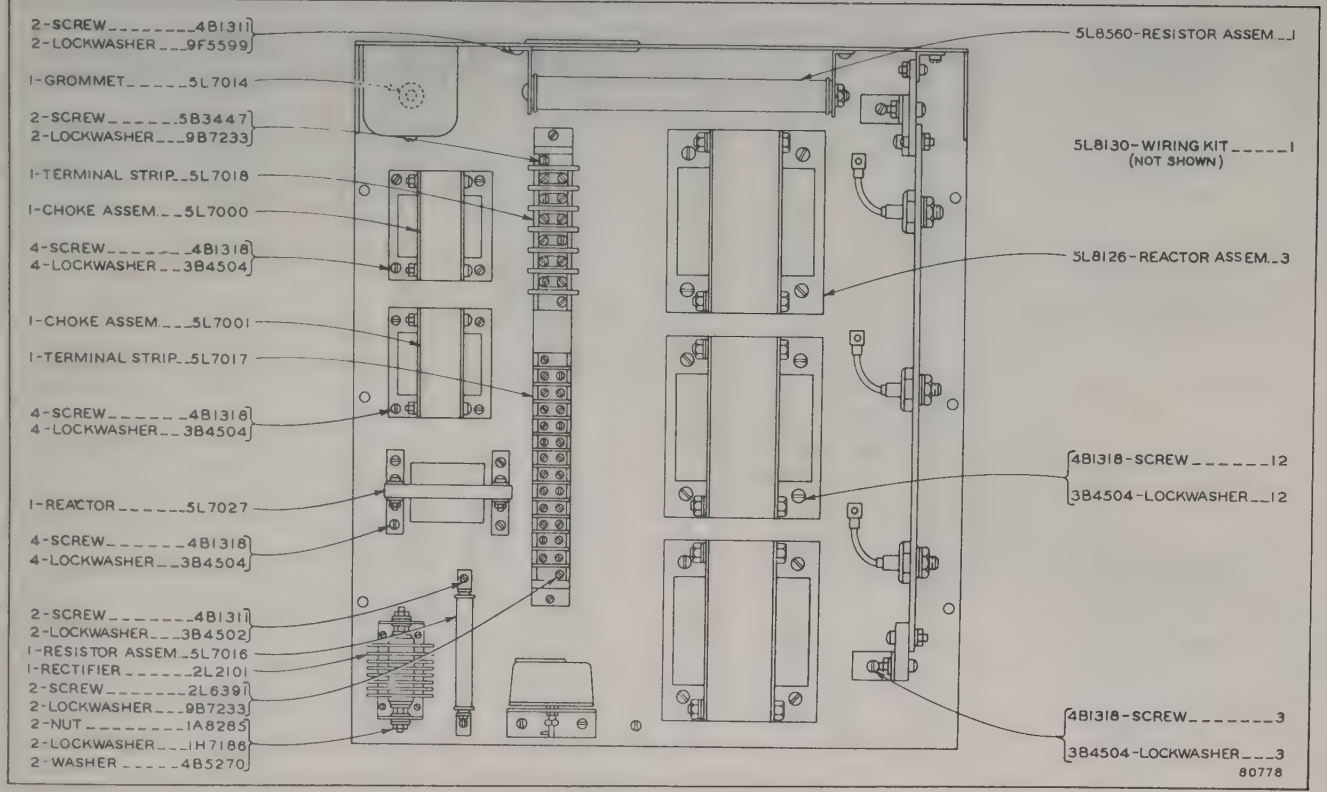
**7L98 GENERATOR—3 Phase—End View**
**Generator Serial No. 500TN1500—Up. 2400 Volt, 60 hertz at 1200 R.P.M.**
**1N5500 Exciter and Regulator parts are shown on Pages 187G through 187K**

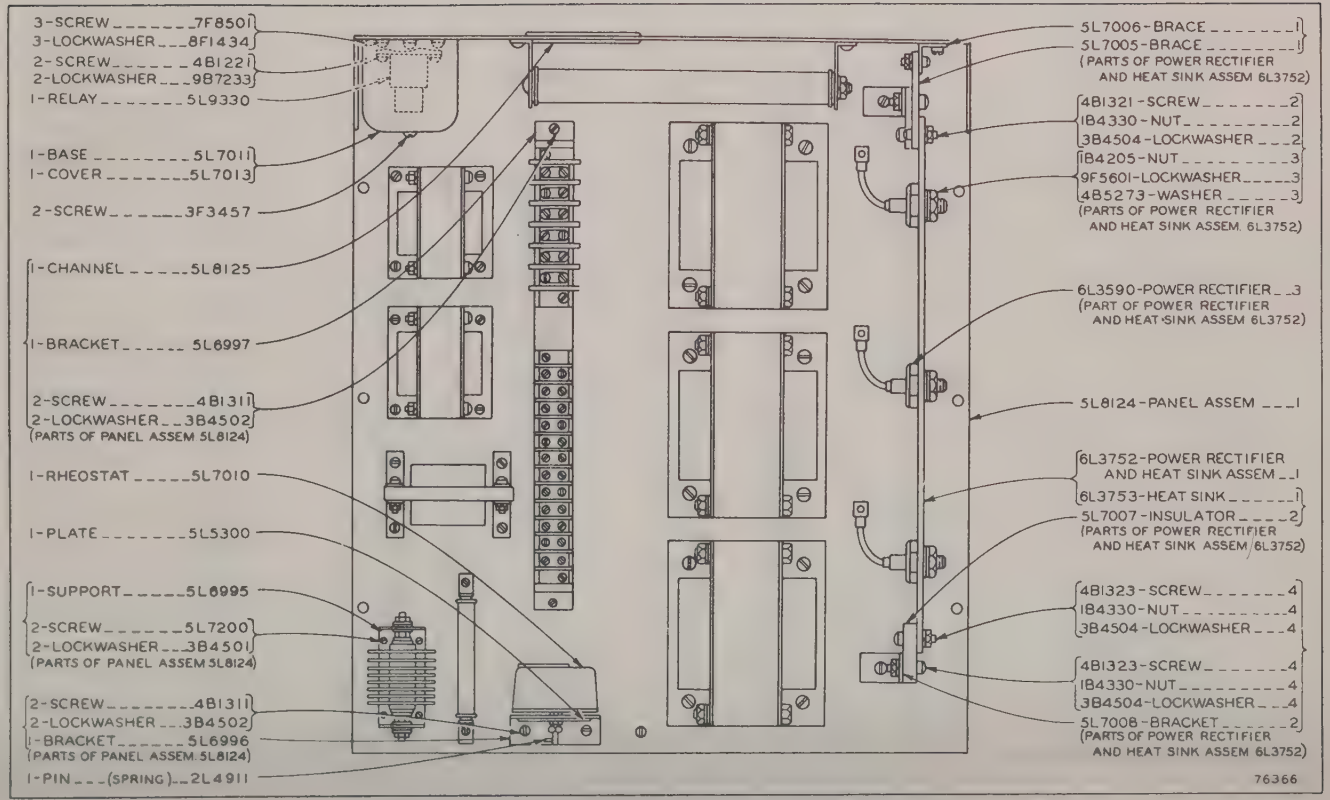



**5L8119 STATIC EXCITER AND REGULATOR ASSEMBLY—Part One**
Generator Serial No. 500SH1 to 500SH59 and 500SN1 to 500SN11 inclusive
Part of 5L4043 and 5L4044 Generators shown on Pages 175 and 177

## 5L8119 STATIC EXCITER AND REGULATOR ASSEMBLY—Part Two

Generator Serial No. 500SH1 to 500SH59 and 500SN1 to 500SN11 inclusive
Part of 5L4043 and 5L4044 Generators shown on Pages 175 and 177

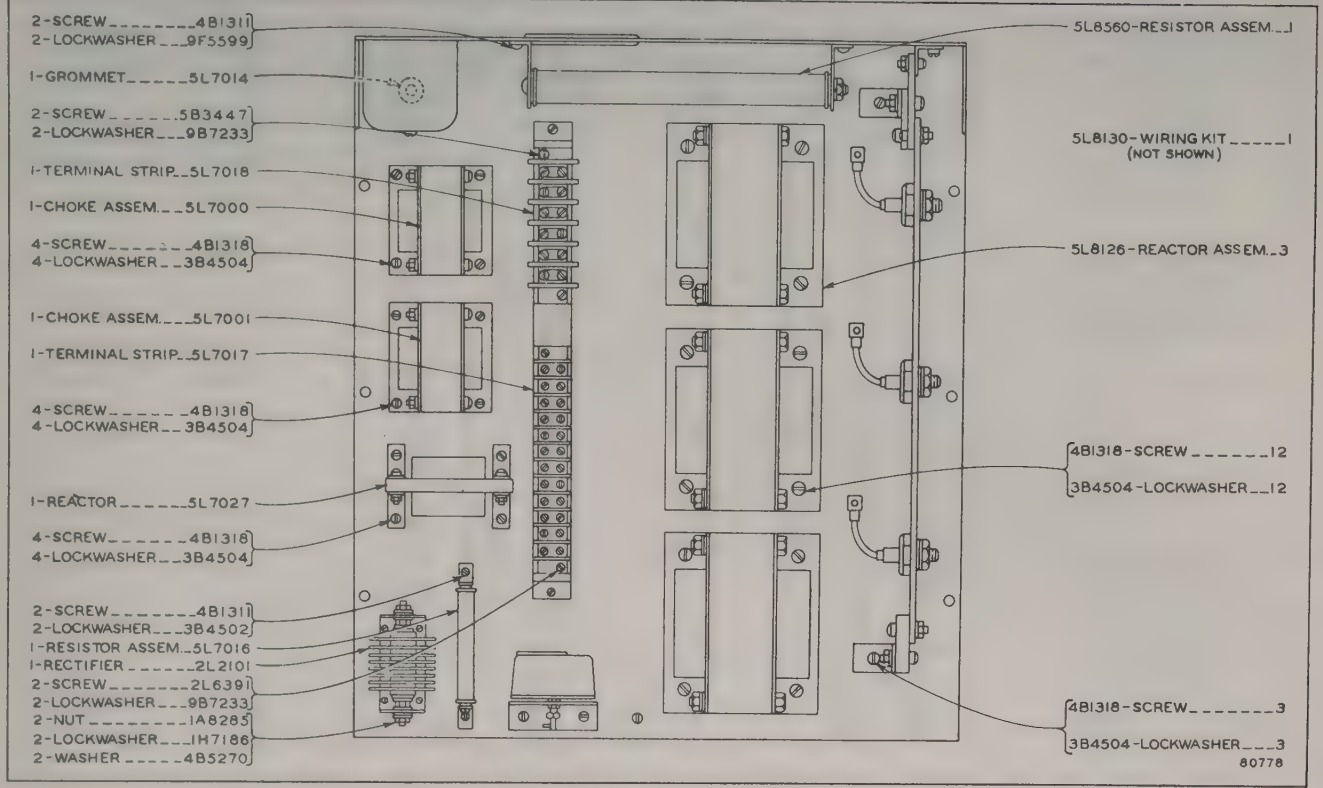


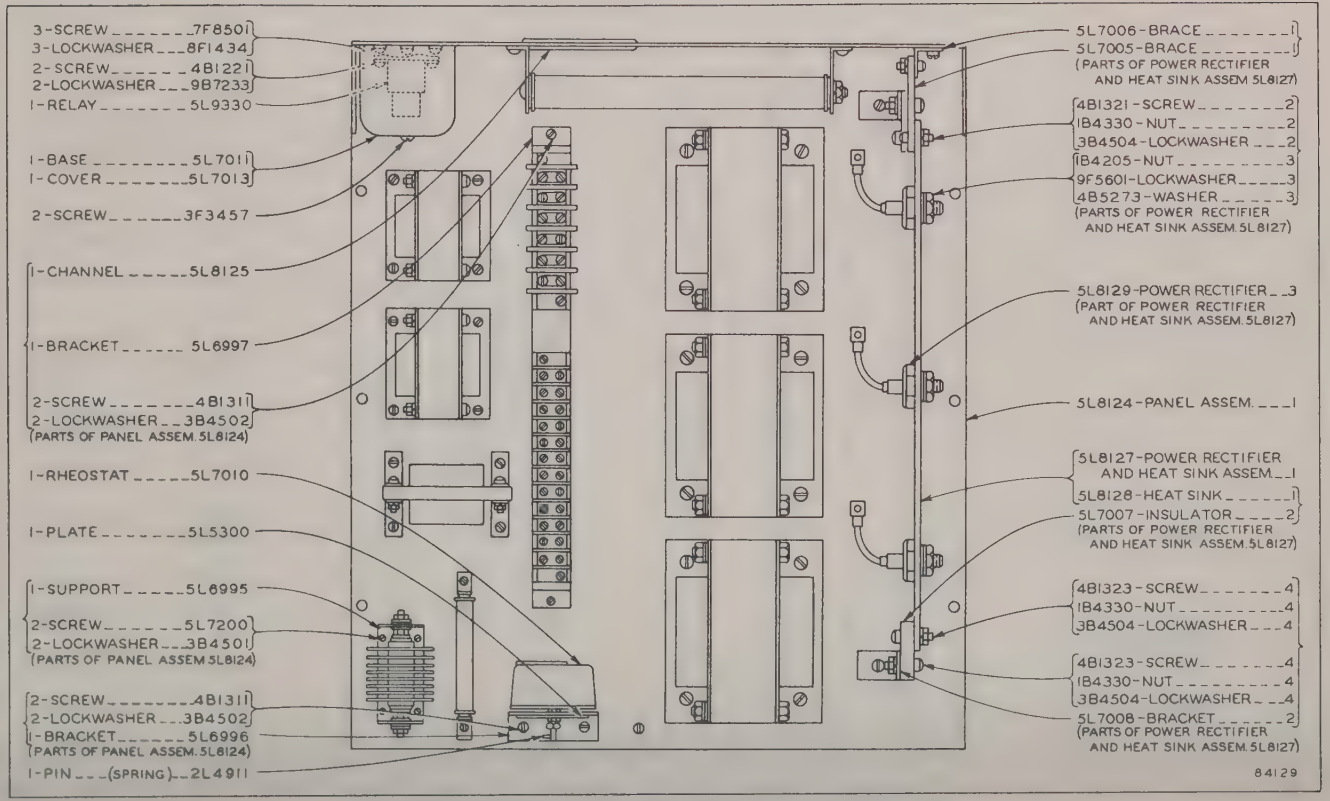



**5L8119 STATIC EXCITER AND REGULATOR ASSEMBLY—Part One**
Effective with Generator Serial No. 500SH60—Up and 500SN12—Up
Part of 5L4043 and 5L4044 Generators shown on Pages 175 and 177

## 5L8119 STATIC EXCITER AND REGULATOR ASSEMBLY—Part Two

Effective with Generator Serial No. 500SH60—Up and 500SN12—Up
Part of 5L4043 and 5L4044 Generators shown on Pages 175 and 177





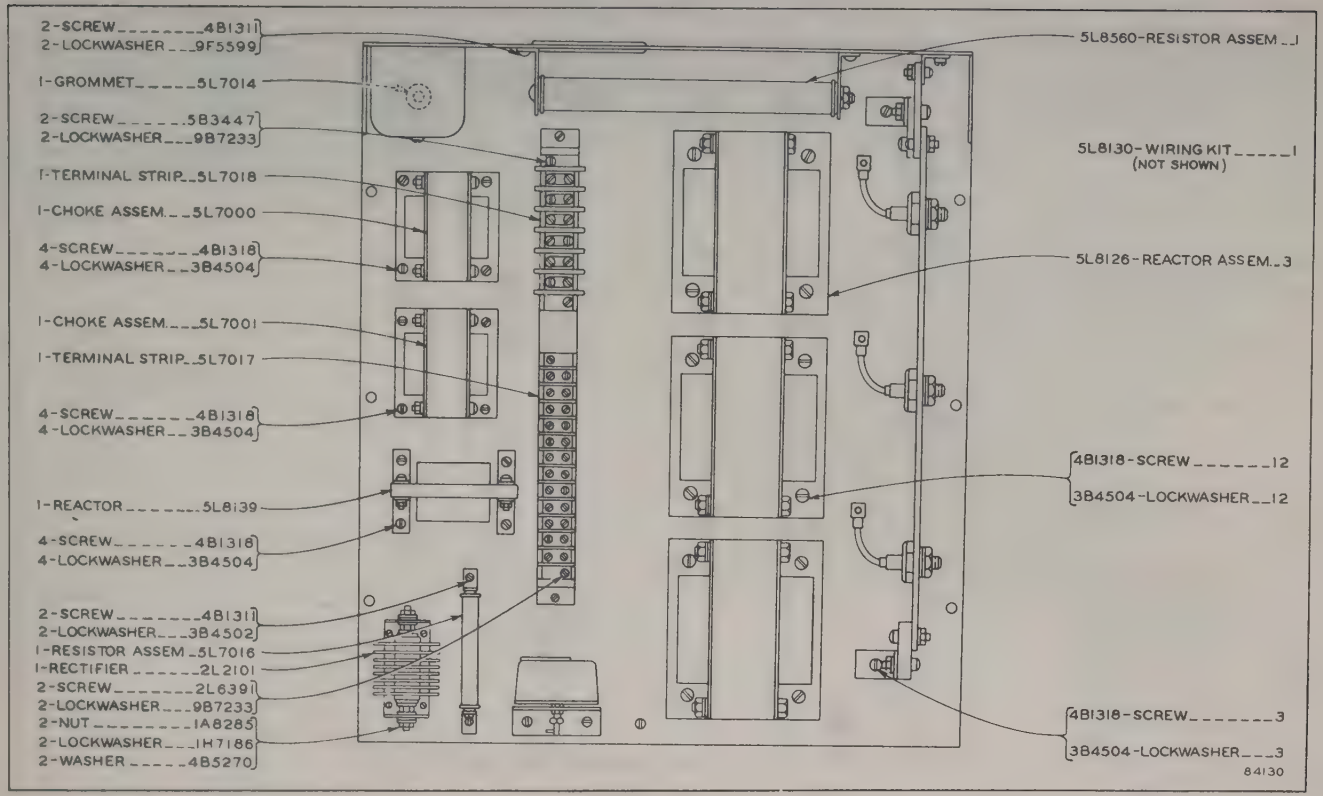

**5L8138 STATIC EXCITER AND REGULATOR ASSEMBLY—Part One**

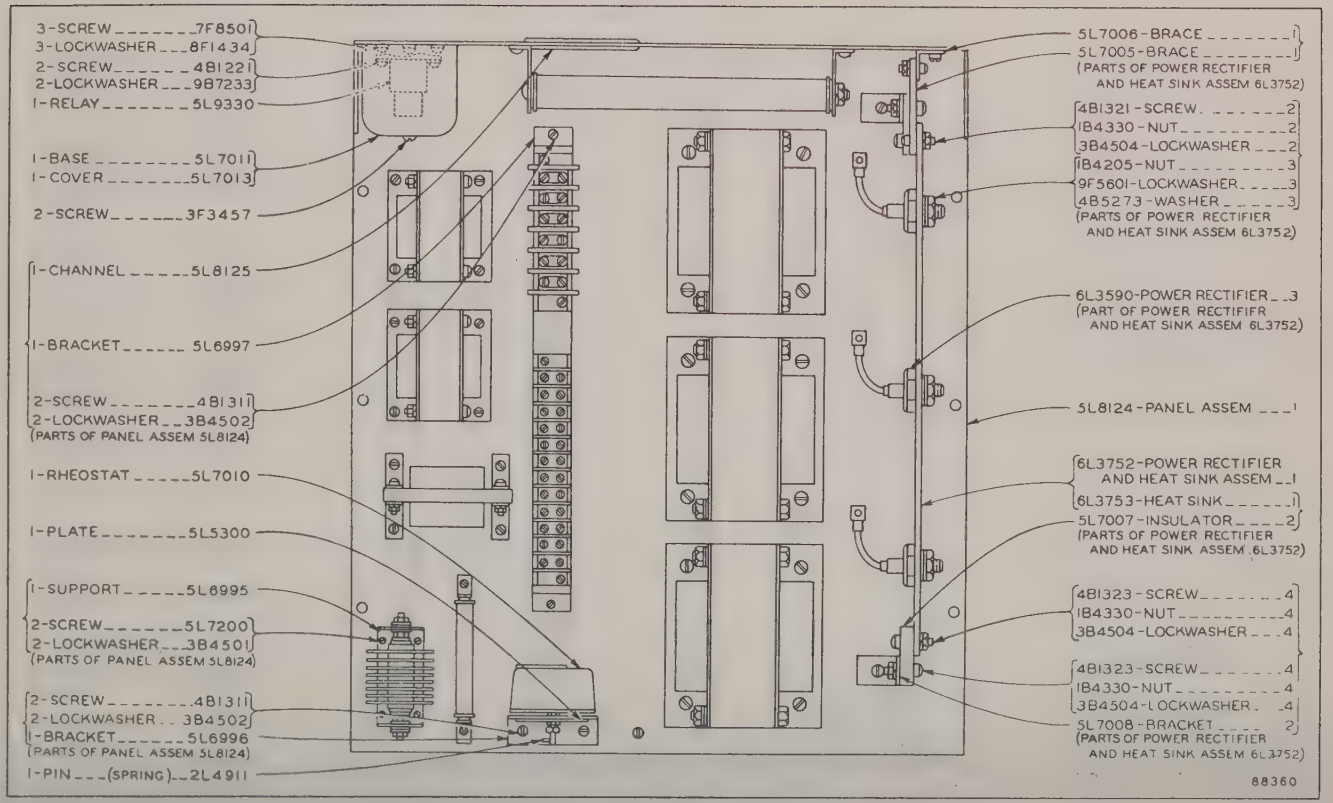
Generator Serial No. 499SG1 to 499SG11 inclusive

Part of 5L7968 Generator shown on Page 179

## 5L8138 STATIC EXCITER AND REGULATOR ASSEMBLY—Part Two

Generator Serial No. 499SG1 to 499SG11 inclusive
Part of 5L7968 Generator shown on Page 179



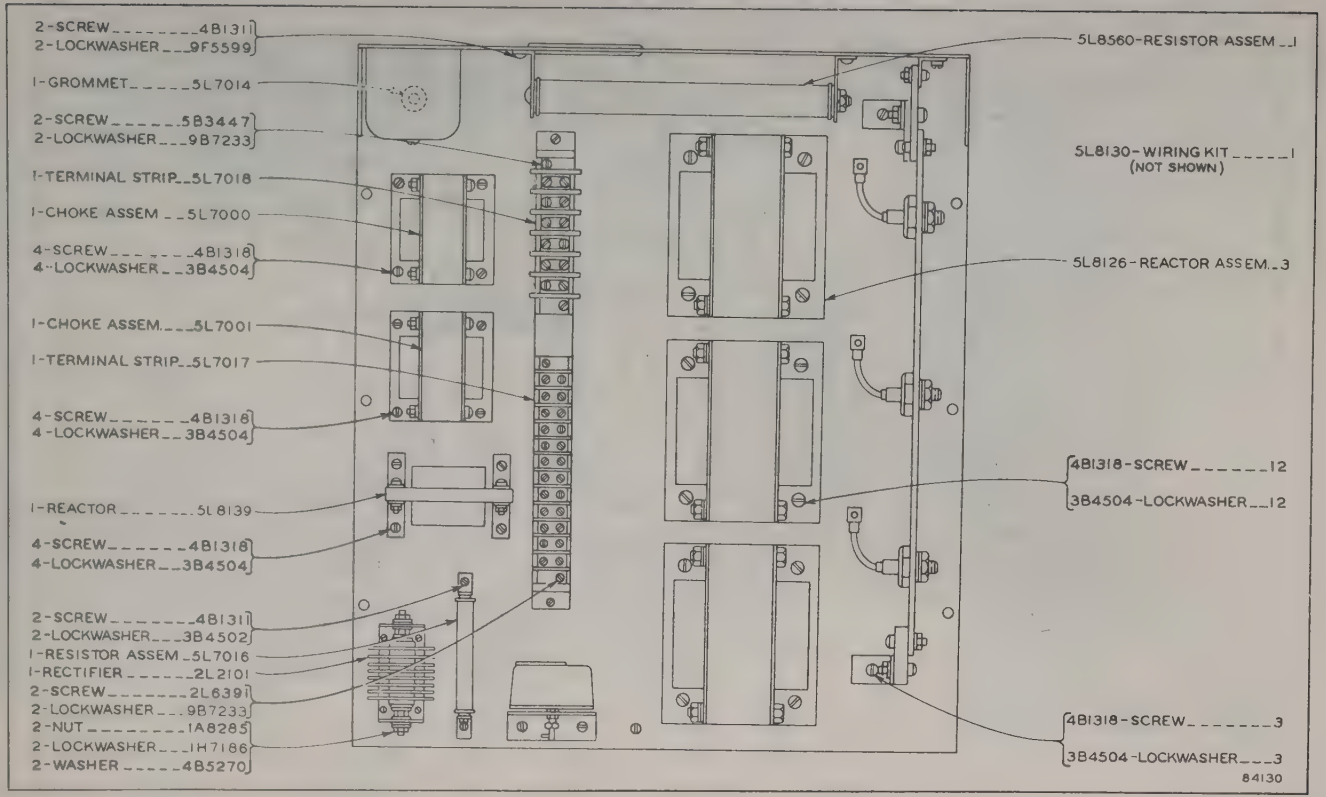


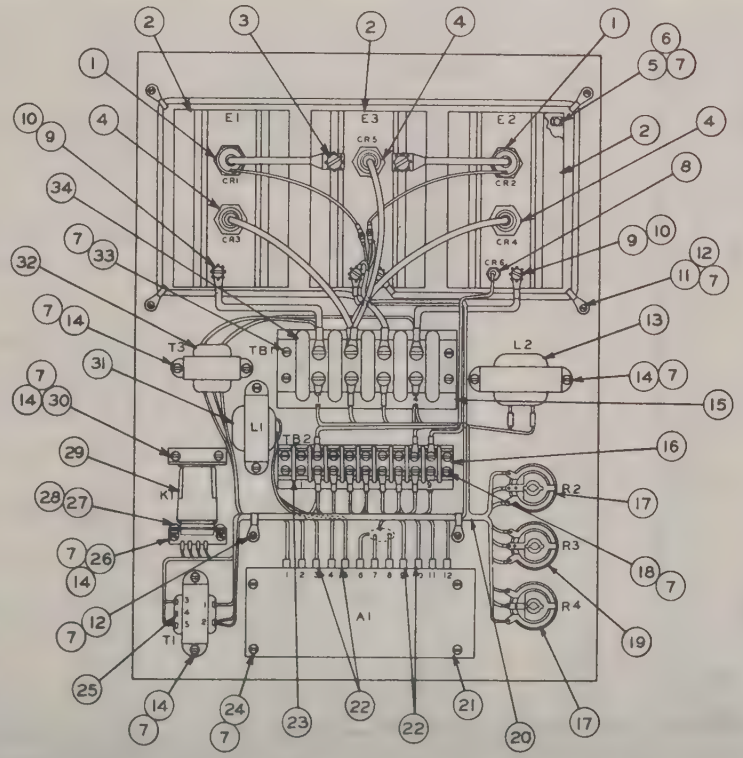

**5L8138 STATIC EXCITER AND REGULATOR ASSEMBLY—Part One**
Effective with Generator Serial No. 499SG12
Part of 5L7968 Generator shown on Page 179

## 5L8138 STATIC EXCITER AND REGULATOR ASSEMBLY—Part Two

Effective with Generator Serial No. 499SG12

Part of 5L7968 Generator shown on Page 179

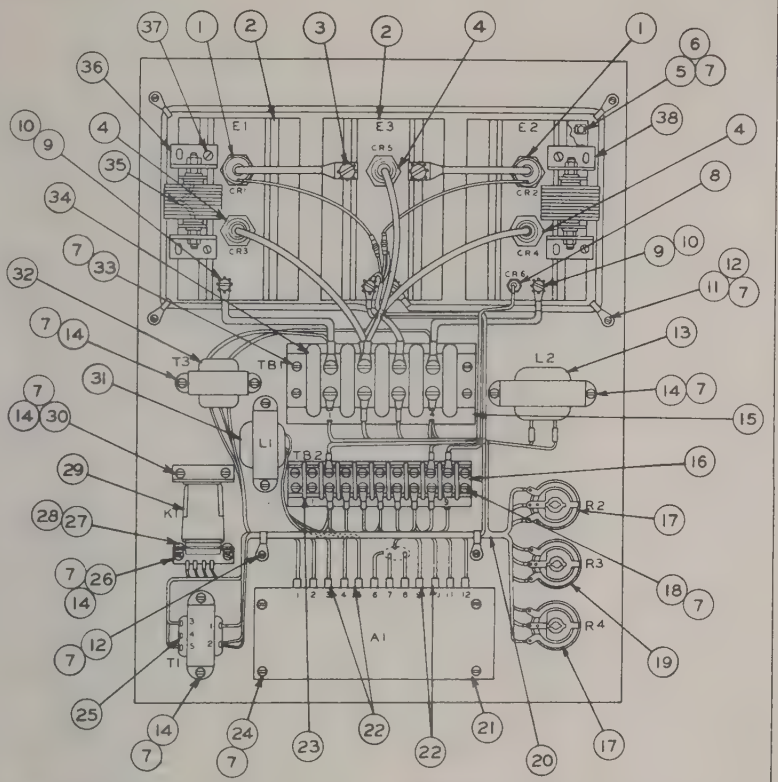





| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L9670 | RECTIFIER | 2 |
| 2 | 8L5043 | HEAT SINK | 3 |
| 3 | 1S7443 | SCREW | 2 |
| | 6L7161 | NUT | 2 |
| | 7F9223 | LOCKWASHER | 2 |
| 4 | 6L3590 | RECTIFIER | 3 |
| 5 | 6L7077 | SCREW | 12 |
| 6 | 7L336 | NUT | 12 |
| 7 | 9B7233 | LOCKWASHER | 42 |
| 8 | 7L8032 | RECTIFIER | 1 |
| 9 | 4B1237 | SCREW | 4 |
| 10 | 8F1434 | LOCKWASHER | 4 |
| 11 | 6L7008 | CLAMP | 4 |
| 12 | 4B1221 | SCREW | 6 |
| 13 | 6L6622 | REACTOR | 1 |
| 14 | 4B1220 | SCREW | 12 |
| 15 | 8L5042 | STRIP | 1 |
| 16 | 7L330 | STRIP | 1 |
| 17 | 6L7003 | POTENTIOMETER | 2 |
| 18 | 3H3627 | SCREW | 4 |
| 19 | 6L8401 | POTENTIOMETER | 1 |
| 20 | 8L5083 | HARNESS | 1 |
| 21 | 8L4276 | REGULATOR ASSEM. | 1 |
| 22 | 8L5040 | TERMINAL | 4 |
| 23 | 2F2832 | TERMINAL BLOCK | 1 |
| 24 | 8M8526 | SCREW | 4 |
| 25 | 6L6623 | TRANSFORMER | 1 |
| 26 | 8L5055 | BRACKET | 1 |
| 27 | 2F7306 | SCREW | 2 |
| 28 | 3L8187 | LOCKWASHER | 2 |
| 29 | 7L2767 | RELAY | 1 |
| 30 | 7L331 | BRACKET | 1 |
| 31 | 7L7812 | CHOKE FILTER | 1 |
| 32 | 8L4269 | TRANSFORMER | 1 |
| 33 | 3K8106 | SCREW | 4 |
| 34 | 8L5041 | TERMINAL STRIP | 1 |

121244

**8L3904 EXCITER AND REGULATOR ASSEMBLY—Type 1**
**Part of 7L36 and 7L37 Generators shown on Pages 179B and 179E**



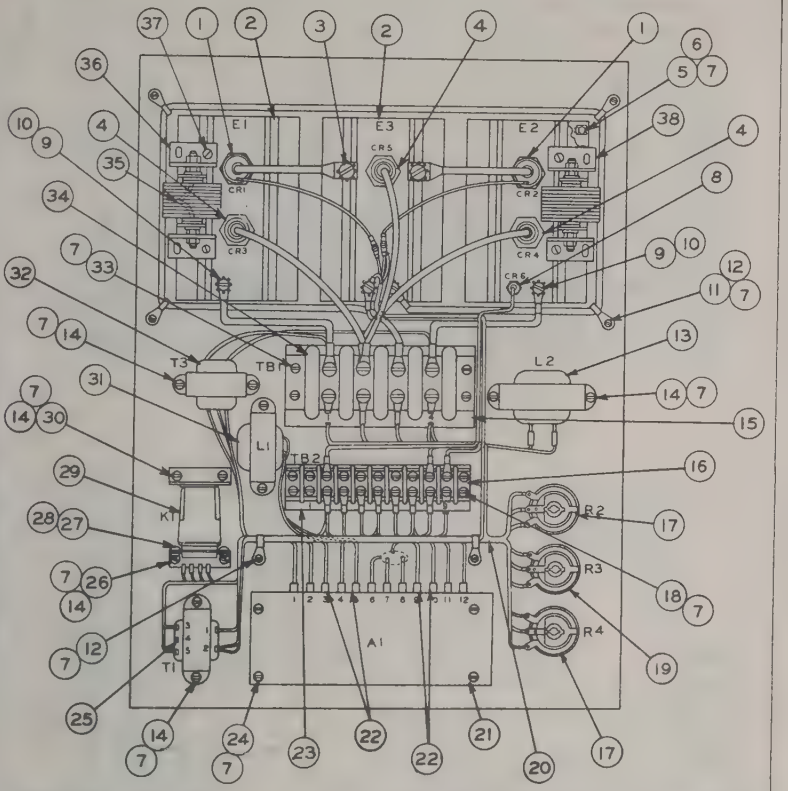

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 6L9670 | RECTIFIER | 2 |
| 2 | 8L5043 | HEAT SINK | 3 |
| 3 | 1S7443 | SCREW | 2 |
| | 6L7161 | NUT | 2 |
| | 7F9223 | LOCKWASHER | 2 |
| 4 | 6L3590 | RECTIFIER | 3 |
| 5 | 6L7077 | SCREW | 12 |
| 6 | 7L336 | NUT | 12 |
| 7 | 9B7233 | LOCKWASHER | 42 |
| 8 | 7L8032 | RECTIFIER | 1 |
| 9 | 4B1237 | SCREW | 4 |
| 10 | 8F1434 | LOCKWASHER | 4 |
| 11 | 6L7008 | CLAMP | 4 |
| 12 | 4B1221 | SCREW | 6 |
| 13 | 6L6622 | REACTOR | 1 |
| 14 | 4B1220 | SCREW | 12 |
| 15 | 8L5042 | STRIP | 1 |
| 16 | 7L330 | STRIP | 1 |
| 17 | 6L7003 | POTENTIOMETER | 2 |
| 18 | 3H3627 | SCREW | 4 |
| 19 | 6L8401 | POTENTIOMETER | 1 |

| REF NO | | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| 20 | | 8L5083 | HARNESS | 1 |
| 21 | | 8L4276 | REGULATOR ASSEM. | 1 |
| 22 | | 8L5040 | TERMINAL | 4 |
| 23 | | 2F2832 | TERMINAL BLOCK | 1 |
| 24 | | 8M8626 | SCREW | 4 |
| 25 | | 6L6623 | TRANSFORMER | 1 |
| 26 | | 8L5055 | BRACKET | 1 |
| 27 | | 2F7306 | SCREW | 2 |
| 28 | | 3L8187 | LOCKWASHER | 2 |
| 29 | | 7L2767 | RELAY | 1 |
| 30 | | 7L331 | BRACKET | 1 |
| 31 | | 7L7812 | CHOKE FILTER | 1 |
| 32 | | 8L4269 | TRANSFORMER | 1 |
| 33 | | 3K8106 | SCREW | 4 |
| 34 | | 8L5041 | TERMINAL STRIP | 1 |
| (C) | 35 | 8L5456 | LEAD ASSEM. | 1 |
| (C) | 35 | 8L4873 | VOLTAGE SUPPRESSOR--(Phase) | 1 |
| | | 7S1201 | SCREW | 4 |
| (C) | 37 | 482043 | NUT | 4 |
| | | 9F5599 | LOCKWASHER | 4 |
| (C) | 38 | 8L4863 | VOLTAGE SUPPRESSOR--(Field) | 1 |

(C) INDICATES CHANGE FROM PREVIOUS TYPE

123284

**8L3904 EXCITER AND REGULATOR ASSEMBLY—Type 2**
**Part of 7L36 and 7L37 Generators shown on Pages 179B and 179E**



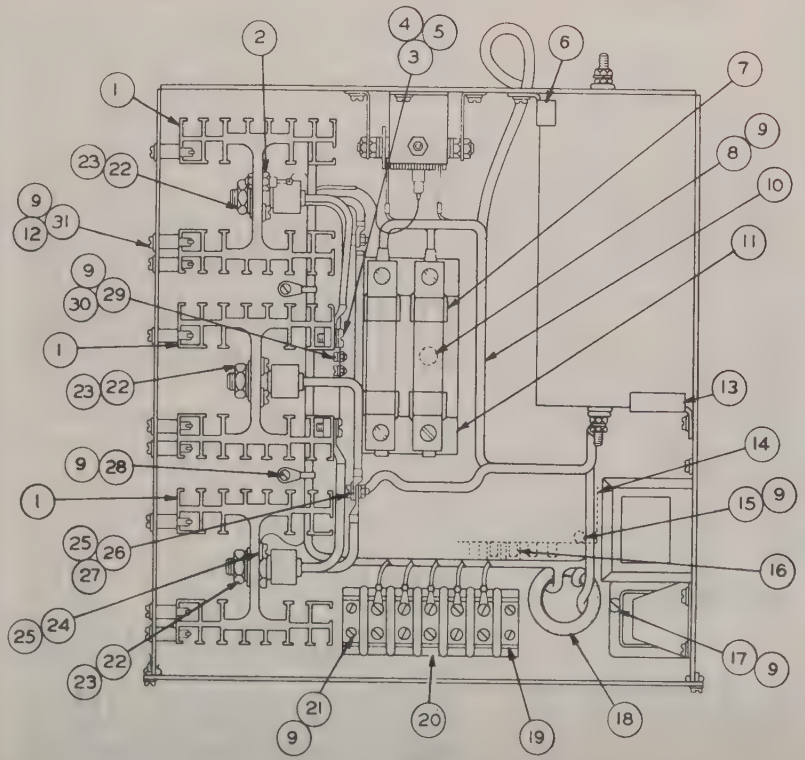

| REF NO | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 6L9670 | RECTIFIER | 2 |
| 2 | 8L5043 | HEAT SINK | 3 |
| | 1S7443 | SCREW | 2 |
| 3 | 6L7161 | NUT | 2 |
| | 7F9223 | LOCKWASHER | 2 |
| 4 | 6L3590 | RECTIFIER | 3 |
| 5 | 6L7077 | SCREW | 12 |
| 6 | 7L336 | NUT | 12 |
| 7 | 9B7233 | LOCKWASHER | 42 |
| 8 | 7L8032 | RECTIFIER | 1 |
| 9 | 4B1237 | SCREW | 4 |
| 10 | 8F1434 | LOCKWASHER | 4 |
| 11 | 6L7008 | CLAMP | 4 |
| 12 | 4B1221 | SCREW | 6 |
| 13 | 6L6622 | REACTOR | 1 |
| 14 | 4B1220 | SCREW | 12 |
| 15 | 8L5042 | STRIP | 1 |
| 16 | 2F2832 | TERMINAL BLOCK | 1 |
| 17 | 6L7003 | POTENTIOMETER | 2 |
| 18 | 3H3627 | SCREW | 4 |
| 19 | 6L7004 | POTENTIOMETER | 1 |

| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 20 | 8L5083 | HARNESS | 1 |
| 21 | 8L5460 | REGULATOR ASSEM. | 1 |
| 22 | 8L5040 | TERMINAL | 4 |
| 23 | 7L330 | STRIP | 1 |
| 24 | 8M8626 | SCREW | 4 |
| 25 | 6L6623 | TRANSFORMER | 1 |
| 26 | 8L5055 | BRACKET | 1 |
| 27 | 2F7306 | SCREW | 2 |
| 28 | 3L8187 | LOCKWASHER | 2 |
| 29 | 7L2767 | RELAY | 1 |
| 30 | 7L331 | BRACKET | 1 |
| 31 | 7L7812 | CHOKE (Filter) | 1 |
| 32 | 8L4269 | TRANSFORMER | 1 |
| 33 | 3K8106 | SCREW | 4 |
| 34 | 8L5041 | TERMINAL STRIP | 1 |
| 35 | 8L5456 | LEAD ASSEM. | 1 |
| 36 | 8L4873 | VOLTAGE SUPPRESSOR--(Phase) | 1 |
| | 7S1201 | SCREW | 4 |
| 37 | 4B2043 | NUT | 4 |
| | 9F5599 | LOCKWASHER | 4 |
| 38 | 8L4863 | VOLTAGE SUPPRESSOR--(Field) | 1 |

105201

**8L8950 EXCITER AND REGULATOR ASSEMBLY**

Part of 7L38 Generator shown on Page 179H

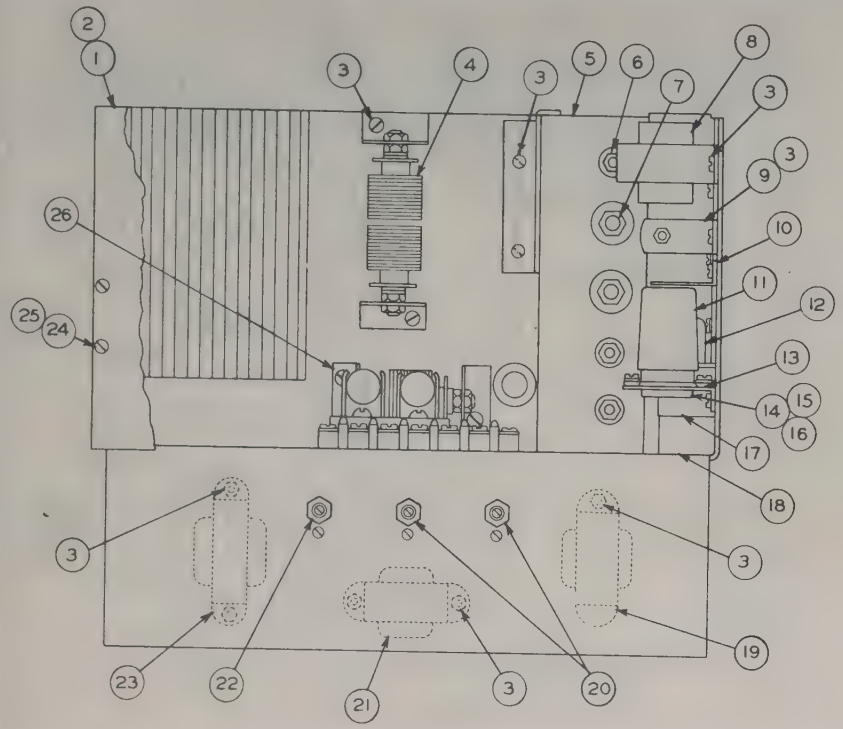



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 8L5043 | HEAT SINK | 3 |
| 2 | 7L8032 | RECTIFIER | 1 |
| 3 | 1S7443 | SCREW | 2 |
| 4 | 6L7161 | NUT | 2 |
| 5 | 7F9223 | LOCKWASHER | 2 |
| 6 | 8L5830 | BRACKET | 1 |
| 7 | 7L6745 | FUSE | 2 |
| 8 | 3D9799 | SCREW | 2 |
| 9 | 9B7233 | LOCKWASHER | 28 |
| 10 | 1N5569 | HARNESS | 1 |
| 11 | 7L7398 | BLOCK | 1 |
| 12 | 8L5827 | NUT | 12 |
| 13 | 8L5829 | BRACKET | 1 |
| 14 | 8L4276 | REGULATOR ASSEM. | 1 |
| 15 | 8M8626 | SCREW | 4 |
| 16 | 8L5040 | TERMINAL | 2 |
| 17 | 4B1220 | SCREW | 2 |
| 18 | 8L5478 | GROMMET | 2 |
| 19 | 2L1717 | STRIP----(Barrier Terminal)---- | 1 |
| 20 | 1N7253 | STRIP----(Terminal Marker)---- | 1 |
| 21 | 5M6668 | SCREW | 4 |
| 22 | 6L3590 | RECTIFIER-------(Power)------- | 3 |
| 23 | 6L9660 | RECTIFIER-------(Silicon)------- | 2 |
| 24 | 4B1237 | SCREW | 4 |
| 25 | 8F1434 | LOCKWASHER | 5 |
| 26 | 1H4336 | SCREW | 1 |
| 27 | 8L5822 | NUT | 1 |
| 28 | 4B1221 | SCREW | 2 |
| 29 | 7S1201 | SCREW | 2 |
| 30 | 4B2043 | NUT | 2 |
| 31 | 8L5828 | SCREW | 12 |

**1N5375 EXCITER AND REGULATOR ASSEMBLY—Part 1**
Part of 7L96 and 7L97 Generators shown on Pages 179M and 179P

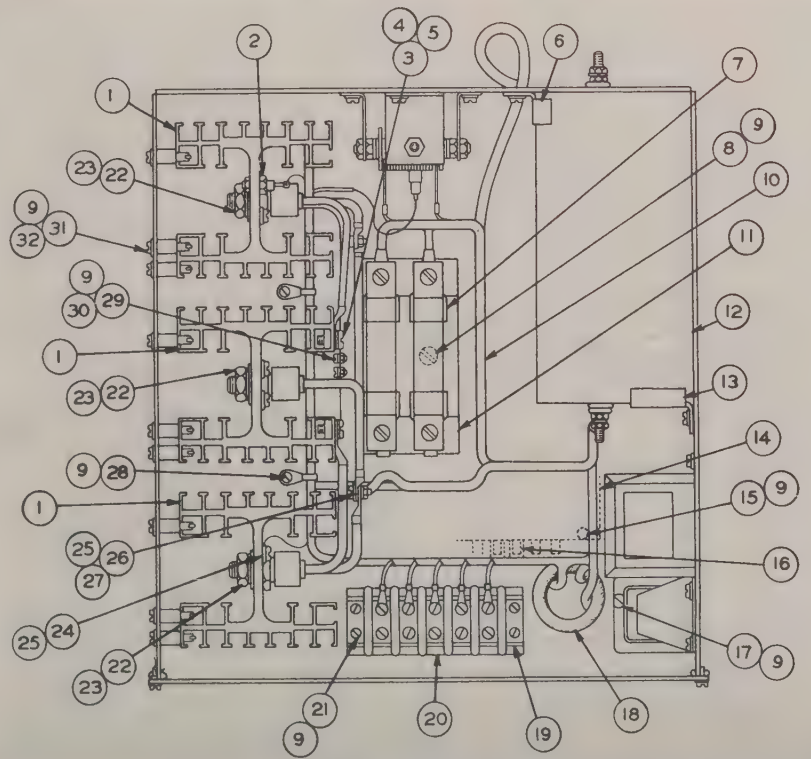
## 1N5375 EXCITER AND REGULATOR ASSEMBLY—Part 2

Part of 7L96 and 7L97 Generators shown on Pages 179M and 179P




| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 1N5036 | GUARD ASSEM. | 1 |
| 2 | 6L6421 | LABEL | 1 |
| | | (Part of 1N5036 Guard Assem.) | |
| 3 | 4B1220 | SCREW | 26 |
| | 9B7233 | LOCKWASHER | 26 |
| 4 | 8L4873 | VOLTAGE SUPPRESSOR | 1 |
| 5 | 1N5567 | NOISE SUPPRESSION ASSEM. | 1 |
| 6 | 1B4330 | NUT | 6 |
| | 3B4504 | LOCKWASHER | 6 |
| 7 | 1D4717 | NUT | 4 |
| | 3B4506 | LOCKWASHER | 4 |
| | | (Parts of 1N5567 Assem.) | |
| 8 | 6L6622 | REACTOR | 1 |
| 9 | 7L7397 | RESISTOR ASSEM. | 1 |
| 10 | 7L331 | BRACKET | 1 |
| 11 | 8L5823 | RELAY | 1 |
| 12 | 7L7392 | BOOT | 1 |
| 13 | 8L5824 | BRACKET | 1 |
| 14 | 8L5826 | SOCKET ASSEM. | 1 |
| 15 | 7L2770 | RECTIFIER | 1 |
| | | (Part of 8L5826 Socket Assem.) | |
| 16 | 7L2770 | RECTIFIER | 1 |
| 17 | 7L7402 | STRAP | 1 |
| 18 | 7L7400 | CAPACITOR | 1 |
| 19 | 6L6623 | TRANSFORMER | 1 |
| 20 | 6L7003 | POTENTIOMETER—(Gain) | 2 |
| 21 | 8L4269 | TRANSFORMER | 1 |
| 22 | 6L8401 | POTENTIOMETER—(Droop) | 1 |
| 23 | 7L7812 | CHOKE—(Filter) | 1 |
| 24 | 5S7348 | SCREW | 4 |
| | 8L5853 | NUT—(Clip) | 2 |
| 25 | 3L8187 | LOCKWASHER | 4 |
| 26 | 8L4863 | VOLTAGE SUPPRESSOR | 1 |

124031

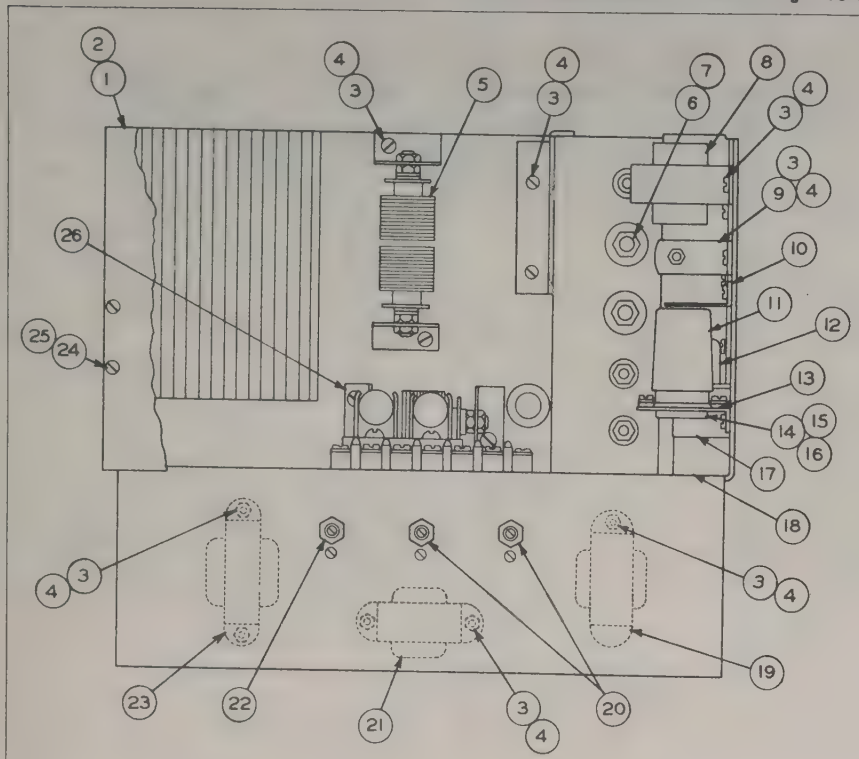



| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 8L5043 | HEAT SINK | 3 |
| 2 | 7L8032 | RECTIFIER | 1 |
| 3 | 1S7443 | SCREW | 2 |
| 4 | 6L7161 | NUT | 2 |
| 5 | 7F9223 | LOCKWASHER | 2 |
| 6 | 8L5830 | BRACKET | 1 |
| 7 | 7L6745 | FUSE | 2 |
| 8 | 3D9799 | SCREW | 2 |
| 9 | 9B7233 | LOCKWASHER | 28 |
| 10 | 1N5569 | HARNESS | 1 |
| 11 | 7L7398 | BLOCK | 1 |
| 12 | 1N5567 | NOISE SUPPRESSION ASSEM. | 1 |
| 13 | 8L5829 | BRACKET | 1 |
| 14 | 8L5460 | REGULATOR ASSEM. | 1 |
| 15 | 8M8626 | SCREW | 4 |
| 16 | 8L5040 | TERMINAL | 2 |
| 17 | 4B1220 | SCREW | 2 |
| 18 | 8L5478 | GROMMET | 2 |
| 19 | 2L1717 | STRIP-----(Barrier Terminal) | 1 |
| 20 | 1N7253 | STRIP-----(Terminal Marker) | 1 |
| 21 | 5M6668 | SCREW | 4 |
| 22 | 6L3590 | RECTIFIER--------(Power) | 3 |
| 23 | 6L9660 | RECTIFIER--------(Silicon) | 2 |
| 24 | 4B1237 | SCREW | 4 |
| 25 | 8F1434 | LOCKWASHER | 5 |
| 26 | 1H4336 | SCREW | 1 |
| 27 | 8L5832 | NUT | 1 |
| 28 | 4B1221 | SCREW | 2 |
| 29 | 7S1201 | SCREW | 2 |
| 30 | 4B2043 | NUT | 2 |
| 31 | 8L5828 | SCREW | 12 |
| 32 | 8L5827 | NUT | 12 |

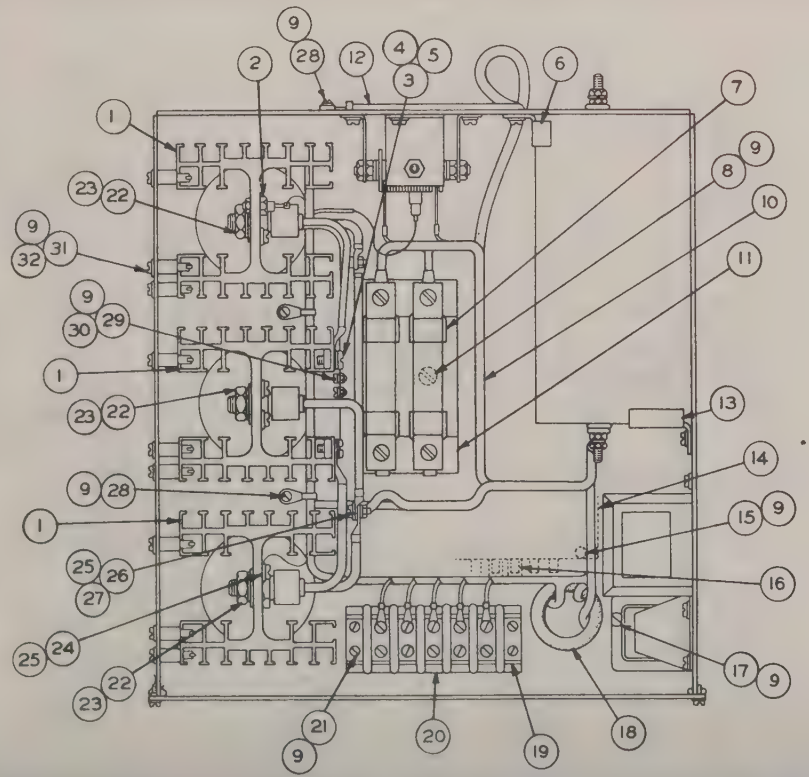
**1N5500 EXCITER AND REGULATOR ASSEMBLY—Part 1—Type 1**
Part of 7L98 Generator shown on Page 179R

## 1N5500 EXCITER AND REGULATOR ASSEMBLY—Part 2—Type 1

Part of 7L98 Generator shown on Page 179R




| REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 1N5036 | GUARD ASSEM. | 1 |
| 2 | 6L6421 | LABEL | 1 |
| | | (Part of 1N5036 Guard Assem.) | |
| 3 | 4B1220 | SCREW | 26 |
| 4 | 9B7233 | LOCKWASHER | 26 |
| 5 | 8L4873 | VOLTAGE SUPPRESSOR | 1 |
| 6 | 1D4717 | NUT | 4 |
| 7 | 3B4506 | LOCKWASHER | 4 |
| 8 | 6L6622 | REACTOR | 1 |
| 9 | 7L7397 | RESISTOR ASSEM. | 1 |
| 10 | 7L331 | BRACKET | 1 |
| 11 | 8L5823 | RELAY | 1 |
| 12 | 7L7392 | BOOT | 1 |
| 13 | 8L5824 | BRACKET | 1 |
| 14 | 8L5826 | SOCKET ASSEM. | 1 |
| 15 | 7L2770 | RECTIFIER | 1 |
| | | (Part of 8L5826 Socket Assem.) | |
| 16 | 7L2770 | RECTIFIER | 1 |
| 17 | 7L7402 | STRAP | 1 |
| 18 | 7L7400 | CAPACITOR | 1 |
| 19 | 6L6623 | TRANSFORMER | 1 |
| 20 | 6L7003 | POTENTIOMETER—(Gain) | 2 |
| 21 | 8L4269 | TRANSFORMER | 1 |
| 22 | 6L7004 | POTENTIOMETER—(Droop) | 1 |
| 23 | 7L7812 | CHOKE—(Filter) | 1 |
| 24 | 5S7348 | SCREW | 4 |
| | 8L5853 | NUT—(Clip) | 2 |
| 25 | 3L8187 | LOCKWASHER | 4 |
| 26 | 8L4863 | VOLTAGE SUPPRESSOR | 1 |




C INDICATES CHANGE FROM PREVIOUS TYPE

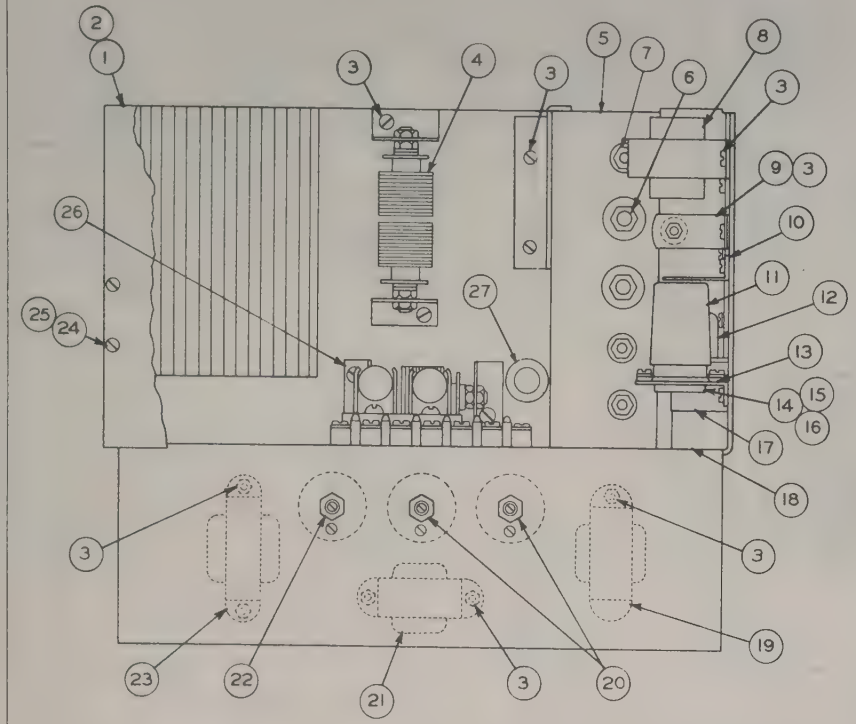
| | REF NO | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| | 1 | 8L5043 | HEAT SINK | 3 |
| | 2 | 7L8032 | RECTIFIER | 1 |
| | 3 | 1S7443 | SCREW | 2 |
| | 4 | 6L7161 | NUT | 2 |
| | 5 | 7F9223 | LOCKWASHER | 2 |
| | 6 | 8L5830 | BRACKET | 1 |
| | 7 | 7L6745 | FUSE | 2 |
| | 8 | 3D9799 | SCREW | 2 |
| C | 9 | 9B7233 | LOCKWASHER | 30 |
| | 10 | 1N5569 | HARNESS | 1 |
| | 11 | 7L7398 | BLOCK | 1 |
| C | 12 | 6L7008 | CABLE | 2 |
| | 13 | 8L5829 | BRACKET | 1 |
| | 14 | 8L5460 | REGULATOR ASSEM. | 1 |
| | 15 | 8M8626 | SCREW | 4 |
| | 16 | 8L5040 | TERMINAL | 2 |
| | 17 | 4B1220 | SCREW | 2 |
| C | 18 | 8L5478 | GROMMET | 1 |
| | 19 | 2L1717 | STRIP-----(Barrier Terminal)----- | 1 |
| | 20 | 1N7253 | STRIP-----(Terminal Marker)----- | 1 |
| | 21 | 5M6668 | SCREW | 4 |
| | 22 | 6L3590 | RECTIFIER--------(Power)-------- | 3 |
| | 23 | 6L9660 | RECTIFIER--------(Silicon)------- | 2 |
| | 24 | 4B1237 | SCREW | 4 |
| | 25 | 8F1434 | LOCKWASHER | 5 |
| | 26 | 1H4336 | SCREW | 1 |
| | 27 | 8L5832 | NUT | 1 |
| C | 28 | 4B1221 | SCREW | 4 |
| | 29 | 7S1201 | SCREW | 2 |
| | 30 | 4B2043 | NUT | 2 |
| | 31 | 8L5828 | SCREW | 12 |
| | 32 | 8L5827 | NUT | 12 |

1N5500 EXCITER AND REGULATOR ASSEMBLY—Part 1—Type 2

Part of 7L98 Generator shown on Page 179R

## 1N5500 EXCITER AND REGULATOR ASSEMBLY—Part 2—Type 2

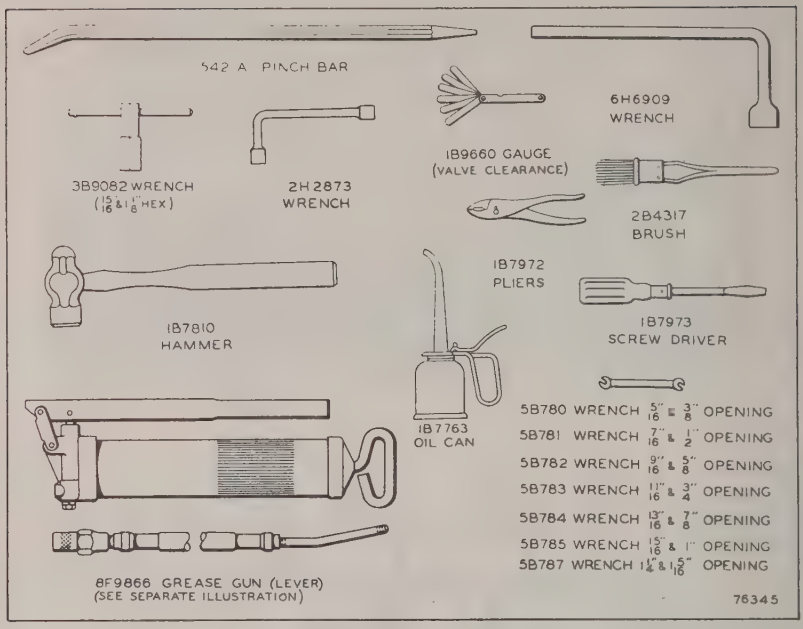
Part of 7L98 Generator shown on Page 179R



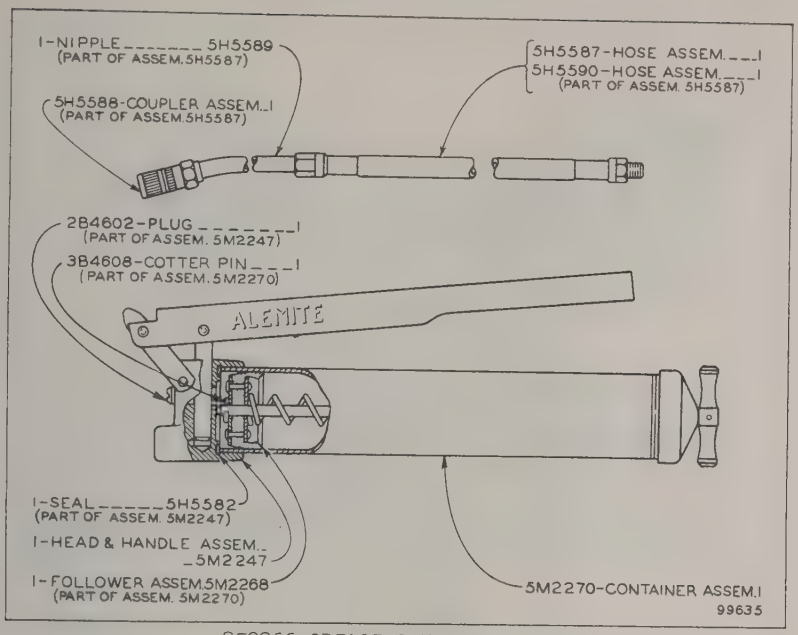

C INDICATES CHANGE FROM PREVIOUS TYPE

| | REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|
| | 1 | 1N5036 | GUARD ASSEM. | 1 |
| | 2 | 6L6421 | LABEL—(Warning) | 1 |
| | | | (Part of 1N5036 Assem.) | |
| | 3 | 4B1220 | SCREW | 26 |
| | | 9B7233 | LOCKWASHER | 26 |
| | 4 | 8L4873 | VOLTAGE SUPPRESSOR | 1 |
| | 5 | 1N5567 | NOISE SUPRESSION ASSEM. | 1 |
| C | 6 | 1D4717 | NUT | 4 |
| C | | 3B4506 | LOCKWASHER | 4 |
| C | 7 | 1B4330 | NUT | 6 |
| C | | 3B4504 | LOCKWASHER | 6 |
| | | | (Parts of 1N5567 Assem.) | |
| | 8 | 6L6622 | REACTOR | 1 |
| C | 9 | 1N9308 | RESISTOR ASSEM. | 1 |
| | 10 | 7L331 | BRACKET | 1 |
| | 11 | 8L5823 | RELAY | 1 |
| | 12 | 7L7392 | BOOT | 1 |
| | 13 | 8L5824 | BRACKET | 1 |
| | 14 | 8L5826 | SOCKET ASSEM. | 1 |
| | 15 | 7L2770 | RECTIFIER | 1 |
| | | | (Part of 8L5826 Assem.) | |
| | 16 | 7L2770 | RECTIFIER | 1 |
| | 17 | 7L7402 | STRAP | 1 |
| | 18 | 7L7400 | CAPACITOR | 1 |
| | 19 | 6L6623 | TRANSFORMER | 1 |
| | 20 | 6L7003 | POTENTIOMETER—(Gain) | 2 |
| | 21 | 8L4269 | TRANSFORMER | 1 |
| | 22 | 6L7004 | POTENTIOMETER—(Droop) | 1 |
| | 23 | 7L7812 | CHOKE—(Filter) | 1 |
| | 24 | 5S7348 | SCREW | 4 |
| | | 8L5853 | NUT—(Clip) | 2 |
| | 25 | 3L8187 | LOCKWASHER | 4 |
| | 26 | 8L4863 | VOLTAGE SUPPRESSOR | 1 |
| C | 27 | 1N9147 | GROMMET | 1 |

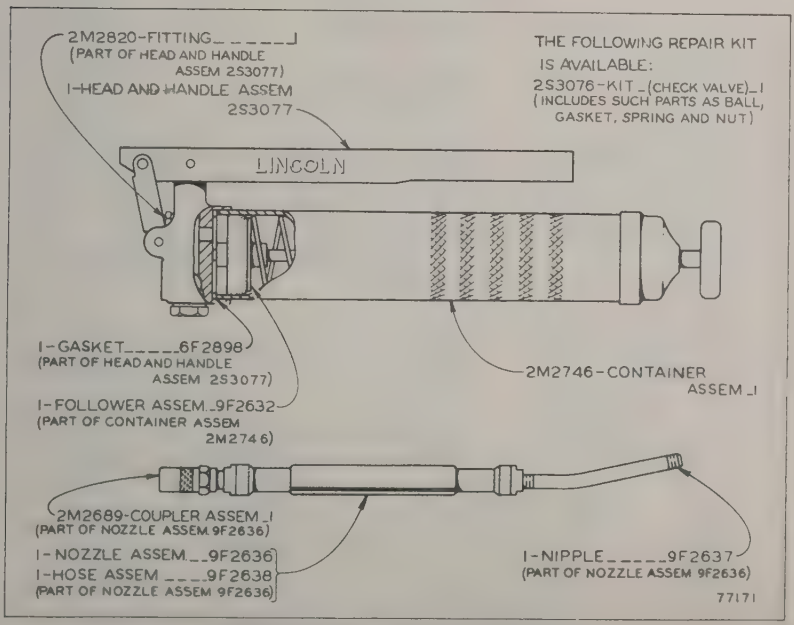
127251




4L1560 TOOL GROUP
AN ATTACHMENT




8F9866 GREASE GUN--FIRST TYPE
PART OF 4L1560 TOOL GROUP



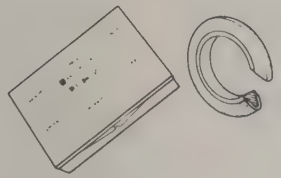

8F9866 GREASE GUN--SECOND TYPE
PART OF 4L1560 TOOL GROUP

| Quantity Used | Part Number | Description |
|---|---|---|
| 1 | 5L3985 | Plate—Warning and Information<br>On valve cover |
| 1 | 2M6831 | Plate—Serial Number<br>On R.H. side of cylinder block |
| 1 | 7M3855 | Plate—Warning |
| 2 | 7B3028 | Drive Screw |
| 1 | 1H3040 | Transfer—Safety<br>On dash or guards when used |
| 2 | 1H4950 | Transfer—Notice<br>On L.H. front side cover and R.H. center side cover |
| 2 | 6L4457 | Transfer—Caterpillar |
| 2 | 6L4448 | Transfer—D398 |
| 2 | 1M4898 | Transfer—Filter Instruction<br>On oil filter end covers |
| 1 | 7M2214 | Transfer—Air Cleaner Instruction<br>On side of diesel air cleaner |
| 1 | 7M9575 | Transfer—S.A.E. Opposite Rotation<br>On rear of R.H. flywheel housing water passage |
| 1 | 7M9576 | Transfer—S.A.E. Standard Rotation<br>On rear of R.H. flywheel housing water passage |
| 1 | 1S9547 | Transfer—Crankcase<br>On oil filter or open space near oil filler |
| 1 | 1S703 | Film—Engine Patent<br>On L.H. front side cover |

## RELATED REPAIR ITEMS

### 1P2305 ELECTRIC TERMINAL KIT

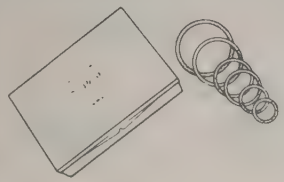
(Insulated)
(Includes terminals, wire joints and crimping tool)



### 9S3138 SEAL KIT

(Includes 28 metal - backed seals)

| Qty. | Nominal Size | Part No. |
|---|---|---|
| 2 | 1/2 inch (1, 27 cm) | 5J1583 |
| 6 | 3/4 inch (1, 905 cm) | 6J3575 |
| 6 | 1 inch (2, 54 cm) | 6J3600 |
| 6 | 1 1/4 inch (3, 175 cm) | 6J3625 |
| 4 | 1 1/2 inch (3, 81 cm) | 6J3650 |
| 4 | 2 inches (5, 08 cm) | 6J3800 |



### 9S3135 SEAL KIT

(Includes 60 rubber O-ring seals)

| Qty. | Nominal Size | Part No. |
|---|---|---|
| 10 | 1/2 inch (1, 27 cm) | 4J5140 |
| 10 | 3/4 inch (1, 905 cm) | 4J5267 |
| 10 | 1 inch (2, 54 cm) | 4J0520 |
| 10 | 1 1/4 inch (3, 175 cm) | 4J0522 |
| 10 | 1 1/2 inch (3, 81 cm) | 4J0524 |
| 10 | 2 inches (5, 08 cm) | 4J0527 |

### THREADED INSERTS KITS

Master (Includes inserts and tools)

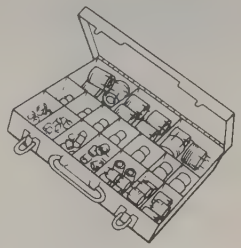
| Coarse | Fine | Size |
|---|---|---|
| 9S3700 | 9S3500 | Assorted |

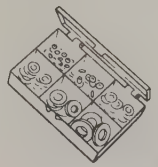
Repair (Includes inserts and tools)

| | | |
|---|---|---|
| 9S3510 | 9S3509 | #10 |
| 9S3512 | 9S3511 | 1/4 |
| 9S3514 | 9S3513 | 5/16 |
| 9S3618 | 9S3515 | 3/8 |
| 9S3620 | 9S3619 | 7/16 |
| 9S3622 | 9S3621 | 1/2 |
| 9S3624 | 9S3623 | 9/16 |
| 9S3626 | 9S3625 | 5/8 |
| 9S3628 | 9S3627 | 3/4 |
| 9S3630 | 9S3629 | 7/8 |
| 9S3632 | 9S3631 | 1 |
| 9S3633 | | 1 1/8 |
| 9S3635 | | 1 1/4 |
| 9S3637 | | 1 1/2 |

Refill (Includes inserts)

| | | |
|---|---|---|
| 9S3674 | 9S3673 | #10 |
| 9S3649 | 9S3639 | 1/4 |
| 9S3650 | 9S3640 | 5/16 |
| 9S3651 | 9S3641 | 3/8 |
| 9S3652 | 9S3642 | 7/16 |
| 9S3653 | 9S3643 | 1/2 |
| 9S3654 | 9S3644 | 9/16 |
| 9S3655 | 9S3645 | 5/8 |
| 9S3656 | 9S3646 | 3/4 |
| 9S3657 | 9S3647 | 7/8 |
| 9S3658 | 9S3648 | 1 |
| 9S3675 | | 1 1/8 |
| 9S3677 | | 1 1/4 |
| 9S3679 | | 1 1/2 |





### HARDWARE ASSORTMENT KITS

8S7198 Course Thread Hex Nut
8S7197 Fine Thread Hex Nut
8S7196 Lockwasher Assortment
8S7195 Flatwasher Assortment
8S7193 Woodruff Key Assortment

139338

GASKET CEMENT

5H2471 8 oz. (227 g)

EPOXY CEMENT

5M2941 2 - 2 oz. (57g) Tube

BEARING LUBRICANT

2S3230 14 1/2 oz. (411 g)

GASKET SEALER

4H5363 11 oz. (312 g)
(fast drying-hard setting)
8H5137 11 oz. (312 g)
(non-hardening)

ANTI-SEIZURE COMPOUND

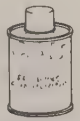
4S9416 16 oz. (454 g) Aerosol
9M3710 16 oz. (454 g) Paste

GLASS OR PLASTIC CEMENT

3S1831 1 pint (0.473 L)

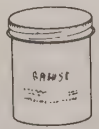
LIQUID GASKET

7M7260 8 oz. (227 g)



SEALING COMPOUND

5S1454 1 pint (0.473 L)



GREASE - SILICONE

4L7464 8 oz. (227 g)

CHAIN & CABLE LUBRICANT

9S6106 16 oz. (454 g) Aerosol
2P2737 Case of 12

BELT DRESSING

9S6107 16 oz. (454 g) Aerosol
2P2738 Case of 12

ELECTRO-INSULATION SPRAY

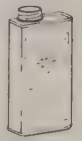
9S6108 16 oz. (454 g) Aerosol
2P2739 Case of 12

PENETRATING OIL

9S6109 16 oz. (454 g) Aerosol
2P2740 Case of 12

BATTERY SAVER & CLEANER

9S6110 16 oz. (454 g) Aerosol
2P2741 Case of 12

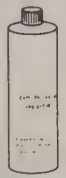


SILICONE FLUID

8M553 145 cc.
9M5165 150 cc.

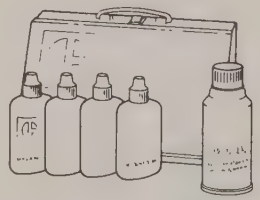
GREASE GUN CARTRIDGE

1P808 14 1/2 oz. (411 gms)



COOLING SYSTEM INHIBITOR

3P2043 1 pint (0.473 L)
P0001 1 case of 12
3P2044 1 quart (0.946 L)
P0002 1 case of 12



9S3262 SEALANT REPAIR KIT

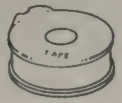
contains:

| | | |
|---|---|---|
| Bearing Mount | 7M7456 | 1 2/3 fl. oz. (50 cc) |
| Thread Lock | 9S3263 | 1 2/3 fl. oz. (50 cc) |
| Pipe Sealant | 9S3264 | 1 2/3 fl. oz. (50 cc) |
| Retaining Compound | 9S3265 | 1 2/3 fl. oz. (50 cc) |
| Quick Cure Primer | 8M8060 | 6 oz. (170 g) Aerosol |

139339

RELATED REPAIR ITEMS

## RELATED REPAIR ITEMS



### ELECTRICAL TAPE

1P810 (plastic) 2/3" (20mm) width
66 ft. (20m) length
9B4287 (cloth) 3/4" (20mm) width
30 ft. (9M) length
(Plastic tape comes in dispenser. Cloth tape does not.)

### 9S8703 ANTI-SKID TREADS

(May be ordered by foot lengths up to 60 feet (18,30m), width 4" (100mm)

### 8S4627 CIRCUIT TESTER

(Maximum Capacity: 10 oms)

### BUTTON PLUGS

| Hole Diameter Inches | Hole Diameter mm | Part Number |
|---|---|---|
| .219 | 5,6 | 4L0820 |
| .310 | 7,9 | 7L6479 |
| .380 | 9,7 | 5L6688 |
| .438 | 11,1 | 4L0821 |
| .469 | 11,9 | 3D9871 |
| .484 | 12,3 | 8M3839 |
| .500 | 12,7 | 3D9872 |
| .625 | 15,9 | 2M4009 |
| .687 | 17,5 | 6K2660 |
| .750 | 19,0 | 5K3546 |
| .875 | 22,2 | 5H4871 |
| 1.000 | 25,4 | 2D3406 |
| 1.250 | 31,8 | 4S6336 |
| 1.375 | 34,9 | 4F8711 |
| 1.500 | 38,1 | 3L1979 |
| 2.000 | 50,8 | 1L6377 |
| 2.250 | 57,2 | 7M3248 |
| 2.500 | 63,5 | 3L8852 |
| 3.000 | 76,2 | 1L6366 |

### MAGNETIC DRAIN PLUGS

| Type | Thread Size-Threads Per Inch | Head Inches | A Inches | A mm | Part No. |
|---|---|---|---|---|---|
| I | 5/8 - 11 | 7/8 Hex | 1 3/16 | 26,9 | 5K1555 |
| I | 5/8 - 18 | 7/8 Hex | 3/4 | 19,1 | 2R166 |
| I | 7/8 - 14 | 1 1/8 Hex | 1 3/16 | 30,2 | 3H4190 |
| I | 1 1/8 - 12 | 1 1/2 Hex | 1 1/2 | 38,1 | 8M3837 |
| I | 1 1/8 - 12 | 1 1/2 Hex | 1 7/8 | 47,8 | 2J1559 |
| I | 1 1/2 - 12 | 1 Hex | 1 1/2 | 38,1 | 8M5576 |
| I | 1 1/2 - 12 | 1 7/8 Hex | 1 7/8 | 47,8 | 2D8390 |
| II | 1/2 - 14 | 9/16 Sq. | 1 1/8 | 28,5 | 2F3628 |
| II | 3/4 | 5/8 Sq. | 1 1/4 | 31,8 | 2H3865 |
| II | 7/8 - 14 | 7/8 Hex | 1 5/8 | 41,3 | 2R1491 |
| II | 1 Std. Pipe Thd. | 13/16 Sq. | 1 7/16 | 36,6 | 2H3864 |
| II | 1 1/4 Std. Pipe Thd. | 15/16 Sq. | 1 11/16 | 42,9 | 2H3863 |
| II | 1 1/4 Std. Pipe Thd. | 15/16 Sq. | 1 3/8 | 35,0 | 7H3664 |
| III | 3/4 - 14 Pipe Thd., Fine | 1/2 Sq. | 1 3/16 | 30,2 | 5D1894 |
| III | 1 - 11 1/2 Pipe Thd., Fine | 1/2 Sq. | 1 5/16 | 33,4 | 2K744 |
| III | 1 1/4 - 11 1/2 Pipe Thd., Fine | 3/4 Sq. | 13/16 | 20,6 | 5S4017 |
| III | 2 - 12 | 3/4 Sq. | 1 11/16 | 42,9 | 8B6599 |

# SPECIFICATIONS

(SUBJECT TO CHANGE WITHOUT NOTICE)

Weight, shipping (approximate) ..... 11,300 lbs.

## DIMENSIONS

Length ..... 101.7"
Width ..... 56.1"
Height ..... 78.8"

## CAPACITIES

Lubrication: Engine: full pressure system, gear type pump.
Crankcase Capacity ..... 70 U.S. Gal.
Cooling System without radiator ..... 63.5 U.S. Gal.
Cooling System with radiator ..... 111.5 U.S. Gal.

## STARTING METHOD

Electric, Air or Gasoline Engine Starting Systems are available.

## ATTACHMENTS

Additional equipment such as Air Cleaner, Charging Generators, Radiators, Heat Exchangers, etc., are available at extra cost. Consult your "Caterpillar" Dealer.

## MACHINE SERIAL NUMBER PLATE LOCATION

Serial number plate is located on the right-hand side of the cylinder block.

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# CONVERSION EQUIVALENT TABLES

## VOLUME AND CAPACITY EQUIVALENTS

| Unit | Cu. In. | Cu. Ft. | Cu. Yd. | Cu. Cm. | Cu. M. | U.S. Liquid Gallons | Imperial Gallons | Liters |
|---|---|---|---|---|---|---|---|---|
| 1 Cu. In. | 1 | .000579 | .0000214 | 16.39 | .0000164 | .004329 | .00359 | .0164 |
| 1 Cu. Ft. | 1728 | 1 | .03704 | 28317 | .0283 | 7.481 | 6.23 | 28.32 |
| 1 Cu. Yd. | 46656 | 27 | 1 | 764600 | .765 | 202 | 167.9 | 764.6 |
| 1 Cu. Cm. | .061 | .0000353 | .00000131 | 1 | .000001 | .000264 | .00022 | .001 |
| 1 Cu. M. | 61020 | 35.31 | 1.308 | 1,000,000 | 1 | 264.2 | 220.2 | 1000 |
| 1 U.S. Liquid Gal. | 231 | .1337 | .00495 | 3785 | .003785 | 1 | .833 | 3.785 |
| 1 Imperial Gallon | 277.42 | .16 | .00594 | 4545.6 | .004546 | 1.2 | 1 | 4.546 |
| 1 Liter | 61.02 | .03531 | .001308 | 1000 | .001 | .2642 | .22 | 1 |

## LENGTH EQUIVALENTS

| Unit | Centimeters | Inches | Feet | Yards | Meters | Kilometers |
|---|---|---|---|---|---|---|
| 1 Centimeter | 1 | 0.3937 | 0.03281 | 0.01094 | 0.01 | |
| 1 Inch | 2.540 | 1 | 0.08333 | 0.02778 | 0.0254 | |
| 1 Foot | 30.48 | 12 | 1 | 0.3333 | 0.3048 | |
| 1 Yard | 91.44 | 36 | 3 | 1 | 0.9144 | |
| 1 Meter | 100 | 39.37 | 3.281 | 1.0936 | 1 | |
| 1 Kilometer | 100000 | 39370 | 3281 | 1093.6 | 1000 | 1 |

## AREA EQUIVALENTS

| Unit | Sq. Cm. | Sq. In. | Sq. M. | Sq. Ft. |
|---|---|---|---|---|
| 1 Sq. Cm. | 1 | 0.155 | | |
| 1 Sq. In. | 6.4516 | 1 | .00064516 | .006944 |
| 1 Sq. M. | 10,000 | 1550 | 1 | 10.764 |
| 1 Sq. Ft. | 929 | 144 | 0.0929 | 1 |

## WEIGHT EQUIVALENTS

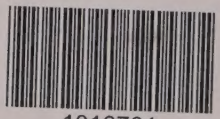
| Unit | Kilograms | Ounces Avoirdupois | Pounds Avoirdupois |
|---|---|---|---|
| 1 Kilogram | 1 | 35.27 | 2.205 |
| 1 Ounce | 0.02835 | 1 | 0.0625 |
| 1 Pound | 0.4536 | 16 | 1 |

## Inches to Centimeters and Centimeters to Inches

| Inches or Centi-meters | Inches | Centi-meters | Inches or Centi-meters | Inches | Centi-meters |
|---|---|---|---|---|---|
| 1 | 0.39 | 2.54 | 26 | 10.24 | 66.04 |
| 2 | 0.79 | 5.08 | 27 | 10.63 | 68.58 |
| 3 | 1.18 | 7.62 | 28 | 11.02 | 71.12 |
| 4 | 1.57 | 10.16 | 29 | 11.42 | 73.66 |
| 5 | 1.97 | 12.70 | 30 | 11.81 | 76.20 |
| 6 | 2.36 | 15.24 | 31 | 12.20 | 78.74 |
| 7 | 2.76 | 17.78 | 32 | 12.60 | 81.28 |
| 8 | 3.15 | 20.32 | 33 | 12.99 | 83.82 |
| 9 | 3.54 | 22.86 | 34 | 13.39 | 86.36 |
| 10 | 3.94 | 25.40 | 35 | 13.78 | 88.90 |
| 11 | 4.33 | 27.94 | 36 | 14.17 | 91.44 |
| 12 | 4.72 | 30.48 | 37 | 14.57 | 93.98 |
| 13 | 5.12 | 33.02 | 38 | 14.96 | 96.52 |
| 14 | 5.51 | 35.56 | 39 | 15.35 | 99.06 |
| 15 | 5.91 | 38.10 | 40 | 15.75 | 101.60 |
| 16 | 6.30 | 40.64 | 41 | 16.14 | 104.14 |
| 17 | 6.69 | 43.18 | 42 | 16.54 | 106.68 |
| 18 | 7.09 | 45.72 | 43 | 16.93 | 109.22 |
| 19 | 7.48 | 48.26 | 44 | 17.32 | 111.76 |
| 20 | 7.87 | 50.80 | 45 | 17.72 | 114.30 |
| 21 | 8.27 | 53.34 | 46 | 18.11 | 116.84 |
| 22 | 8.66 | 55.88 | 47 | 18.50 | 119.38 |
| 23 | 9.06 | 58.42 | 48 | 18.90 | 121.92 |
| 24 | 9.45 | 60.96 | 49 | 19.29 | 124.46 |
| 25 | 9.84 | 63.50 | 50 | 19.69 | 127.00 |

How to use:
11 inches = 27.94 centimeters
11 centimeters = 4.33 inches

www.manualsplus.com



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UEO35710 (7-80)

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